

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: July 26, 2005, 14:23:24 ; Search time 42 Seconds  
(without alignments)  
207.951 Million cell updates/sec

Title: US-10-659-782B-32

Perfect score: 620

Sequence: 1 MPSPGTVCSLLILGMLMDL.....PPSSRRSRGRSHQSPSPPEL 117

Scoring table: BIOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	198	31.9	117	US-09-046-479-2	Sequence 2, Appli
2	198	31.9	117	US-08-822-897C-2	Sequence 2, Appli
3	198	31.9	117	US-09-608-810A-4	Sequence 4, Appli
4	198	31.9	117	US-09-404-417A-2	Sequence 2, Appli
5	198	31.9	117	US-09-794-987-2	Sequence 2, Appli
6	74	11.9	597	US-09-949-016-7800	Sequence 7800, Ap
7	73.5	11.9	569	US-09-252-991A-27248	Sequence 27248, A
8	71.5	11.5	201	US-09-902-540-13645	Sequence 13645, A
9	71.5	11.5	643	US-09-252-991A-21569	Sequence 21569, A
10	70.5	11.4	382	US-09-949-016-10513	Sequence 10513, A
11	70.5	11.4	383	US-08-391-916A-4	Sequence 4, Appli
12	70.5	11.4	383	US-09-764-803B-23	Sequence 23, Appli
13	70.5	11.4	393	US-09-248-796A-19806	Sequence 19806, A
14	70	11.3	18	US-09-404-417A-11	Sequence 11, Appli
15	69.5	11.2	835	US-09-949-016-7379	Sequence 7379, Ap
16	68	11.0	995	PCT-US95-04910-14	Sequence 14, Appli
17	67.5	10.9	168	US-09-252-991A-17387	Sequence 17387, A
18	67	10.8	366	US-09-134-000C-4470	Sequence 4470, Ap
19	67	10.8	449	US-08-489-666C-3	Sequence 3, Appli
20	67	10.8	449	US-08-911-092-3	Sequence 3, Appli
21	67	10.8	449	US-08-485-001B-3	Sequence 3, Appli
22	67	10.8	449	US-08-454-121A-3	Sequence 3, Appli
23	67	10.8	449	US-08-483-151B-3	Sequence 3, Appli
24	67	10.8	449	US-09-057-963A-2	Sequence 2, Appli
25	66.5	10.7	973	US-09-252-991A-23944	Sequence 23944, A
26	66.5	10.7	263	US-08-391-916A-8	Sequence 8, Appli
27	66.5	10.7	311	US-08-391-916A-6	Sequence 6, Appli

28	66	10.6	508	US-09-252-991A-27892	Sequence 27892, A
29	66	10.6	1122	US-09-042-460-2	Sequence 2, Appli
30	65	10.5	303	US-09-034-13	Patent No. 5340934
31	65	10.5	303	US-09-034-13	Patent No. 5340934
32	65	10.5	431	US-08-845-258-34	Sequence 34, Appli
33	65	10.5	431	US-08-990-571-34	Sequence 34, Appli
34	65	10.5	431	US-08-723-142A-34	Sequence 34, Appli
35	65	10.5	431	US-09-528-784A-34	Sequence 34, Appli
36	65	10.5	431	US-09-569-098A-34	Sequence 34, Appli
37	65	10.5	449	US-07-917-722-2	Sequence 2, Appli
38	65	10.5	466	US-09-724-864-44	Sequence 44, Appli
39	64.5	10.4	263	US-09-252-991A-20756	Sequence 20756, A
40	64	10.3	312	US-09-902-540-14391	Sequence 14391, A
41	64	10.3	637	US-09-949-016-10956	Sequence 10956, A
42	64	10.3	1062	US-09-902-540-16313	Sequence 16313, A
43	63.5	10.2	250	US-09-248-796A-19737	Sequence 19737, A
44	63.5	10.2	334	US-09-218-363-11	Sequence 11, Appli
45	63	10.2	193	US-09-252-991A-24544	Sequence 24544, A

## ALIGNMENTS

RESULT 1  
US-09-046-479-2

Sequence 2, Application US/09046479  
Patent No. 6291653

GENERAL INFORMATION:

APPLICANT: Sheppard, Paul O.

APPLICANT: Delaher, Theresa A.

TITLE OF INVENTION: MOTILIN HOMOLOGS

NUMBER OF SEQUENCES: 7

CORRESPONDENCE ADDRESS:

ADDRESS: ZymoGenetics, Inc.

STREET: 1201 Eastlake Avenue East

CITY: Seattle

STATE: WA

COUNTRY: USA

ZIP: 98102

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FASTSEQ for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/046,479

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Sawislak, Deborah A

REGISTRATION NUMBER: 37,438

REFERENCE/DOCKET NUMBER: 97-04

TELECOMMUNICATION INFORMATION:

TELEPHONE: 206-442-6672

TELEFAX: 206-442-6678

TELEX:

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 117 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

FRAGMENT TYPE: internal

US-09-046-479-2

Query Match 31.9%; Score 198; DB 3; Length 117;

Best Local Similarity 88.6%; Pred. No. 3e-17;

Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Cy 1 MSPGTVCSTLLIGMLWDLAMAGSSFLSPHQRVQVRPPHKAP 44  
Db 1 MSPGTVCSTLLIGMLWDLAMAGSSFLSPHQRVQVRPPHKAP 44

## RESULT 2

US-08-822-897C-2  
; Sequence 2, Application US/08822897C  
; Patent No. 6380158  
; GENERAL INFORMATION:  
; APPLICANT: Sheppard, Paul O.  
; APPLICANT: Deisher, Theresa A.  
; TITLE OF INVENTION: MOTILIN HOMOLOGS  
; NUMBER OF SEQUENCES: 7  
; CORRESPONDENCE ADDRESSES:  
; ADDRESSEE: ZymoGenetics, Inc.  
; STREET: 1201 Eastlake Avenue East  
; CITY: Seattle  
; STATE: WA  
; COUNTRY: USA  
; ZIP: 98102  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/822,897C  
; FILING DATE:  
; CLASSIFICATION: 536  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Sawislak, Deborah A.  
; REGISTRATION NUMBER: 37,438  
; REFERENCE/DOCKET NUMBER: 97-04  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 206-442-6672  
; TELEFAX: 206-442-6678  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 117 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; FRAGMENT TYPE: internal  
; US-08-822-897C-2

Query Match 31.9%; Score 198; DB 3; Length 117;  
Best Local Similarity 88.6%; Pred. No. 3e-17;  
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Cy 1 MSPGTVCSTLLIGMLWDLAMAGSSFLSPHQRVQVRPPHKAP 44  
Db 1 MSPGTVCSTLLIGMLWDLAMAGSSFLSPHQRVQVRPPHKAP 44

## RESULT 3

US-09-608-810A-4  
; Sequence 4, Application US/09608810A  
; Patent No. 6420521  
; GENERAL INFORMATION:  
; APPLICANT: Sheppard, Paul O.  
; APPLICANT: Jaspers, Stephen R.  
; APPLICANT: Deisher, Theresa A.  
; APPLICANT: Bishop, Paul D.  
; TITLE OF INVENTION: SGP PEPTIDES  
; FILE REFERENCE: 99-51  
; CURRENT APPLICATION NUMBER: US/09/608,810A  
; CURRENT FILING DATE: 2000-06-30

; PRIOR APPLICATION NUMBER: 60/141,592  
; PRIOR FILING DATE: 1999-06-30  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 4  
; LENGTH: 117  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SIGNAL  
; LOCATION: (1)...(23)  
; US-09-608-810A-4

Query Match 31.9%; Score 198; DB 4; Length 117;  
Best Local Similarity 88.6%; Pred. No. 3e-17;  
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Cy 1 MSPGTVCSTLLIGMLWDLAMAGSSFLSPHQRVQVRPPHKAP 44  
Db 1 MSPGTVCSTLLIGMLWDLAMAGSSFLSPHQRVQVRPPHKAP 44

RESULT 4  
US-09-404-417A-2  
; Sequence 2, Application US/09404417A  
; Patent No. 6627729  
; GENERAL INFORMATION:  
; APPLICANT: Sheppard, Paul O.  
; APPLICANT: Deisher, Theresa A.  
; APPLICANT: Jaspers, Stephen R.  
; TITLE OF INVENTION: TML PEPTIDES  
; FILE REFERENCE: 97-04C1  
; CURRENT APPLICATION NUMBER: US/09/404,417A  
; CURRENT FILING DATE: 1999-09-23  
; NUMBER OF SEQ ID NOS: 13  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 2  
; LENGTH: 117  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; US-09-404-417A-2

Query Match 31.9%; Score 198; DB 4; Length 117;  
Best Local Similarity 88.6%; Pred. No. 3e-17;  
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Cy 1 MSPGTVCSTLLIGMLWDLAMAGSSFLSPHQRVQVRPPHKAP 44  
Db 1 MSPGTVCSTLLIGMLWDLAMAGSSFLSPHQRVQVRPPHKAP 44

RESULT 5  
US-09-794-987-2  
; Sequence 2, Application US/09794987  
; Patent No. 6838438  
; GENERAL INFORMATION:  
; APPLICANT: Sheppard, Paul O.  
; APPLICANT: Deisher, Theresa A.  
; TITLE OF INVENTION: MOTILIN HOMOLOGS  
; NUMBER OF SEQUENCES: 7  
; CORRESPONDENCE ADDRESSES:  
; ADDRESSEE: ZymoGenetics, Inc.  
; STREET: 1201 Eastlake Avenue East  
; CITY: Seattle  
; STATE: WA  
; COUNTRY: USA  
; ZIP: 98102  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:

US-09-794-987-2  
; Sequence 2, Application US/09794987  
; Patent No. 6838438  
; GENERAL INFORMATION:  
; APPLICANT: Sheppard, Paul O.  
; APPLICANT: Deisher, Theresa A.  
; TITLE OF INVENTION: MOTILIN HOMOLOGS  
; NUMBER OF SEQUENCES: 7  
; CORRESPONDENCE ADDRESSES:  
; ADDRESSEE: ZymoGenetics, Inc.  
; STREET: 1201 Eastlake Avenue East  
; CITY: Seattle  
; STATE: WA  
; COUNTRY: USA  
; ZIP: 98102  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:

QY 98 PSS 101

Db 57 TKVQWQFTFYQDRKDAFALLLEGSLSWGL-----AFPDAEEGKPNNAVRSFYQHSP 107

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RESULT 9
US-09-252-991A-21569
; Sequence 21569, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 21569
; LENGTH: 643
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-21569

Query Match          11.5%; Score 71.5; DB 4; Length 643;
Best Local Similarity 25.7%; Pred. No. 4;
Matches 37; Conservative 17; Mismatches 47; Indels 43; Gaps 8;

QY 2 PSPGTV--CSLLILGML-----WDLAMGSSFLSPHQVQVPRPHKAPHV 46
DB 389 PSAQOMSCSGVIGRSSARPRNRLIAEWPA-LTRPASSM-PGNSRISVAPWMA-- 443
QY 47 VPALPLSNQDLQOQRHLW---ASVFSQSTKDSGLTVS---GRTWGLRYLNRLLFP 98
DB 444 -----CSRATRAIWPSPRMSAMSRSTTTPAGSTGCTIQVGRRRSKGLRTGLMAAH 493
QY 99 PSSRRSRSHQPC-----SPEL 117
DB 494 PGRRAGSRKTYRASAGARVNPOL 517

RESULT 10
US-09-949-016-10513
; Sequence 10513, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10513
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-10513

Query Match          11.4%; Score 70.5; DB 4; Length 382;
Best Local Similarity 22.0%; Pred. No. 2.6;
Matches 27; Conservative 20; Mismatches 37; Indels 39; Gaps 4;

QY 1 MSPRGTVCSLILGMLWLDLAMGSSFLSPHQVQVPRPHKAPHVVALPLSN----- 54
DB 61 IPKGAQAQCICITYICEDSYLAGTGLSAAPQAVQDN-----PAMPTSSGSGENV 111
QY 55 QLCDLEQQRHLW---ASVFSQSTKDS-----GSDLTVSGRTWGL 90
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DB 112 KICSLERAGIWKQKSAEIVPIMDKSRRRLALICNEBFDSPRRRTGAEVDITGTMML 171
QY 91 RVL 93
DB 172 QNL 174

RESULT 11
US-08-391-916A-4
; Sequence 4, Application US/08391916A
; Patent No. 5856169
; GENERAL INFORMATION:
; APPLICANT: Litwack, Gerald
; APPLICANT: Alnemri, Emad S.
; APPLICANT: Fernandez-Alnemri, Teresa
; TITLE OF INVENTION: ISOFORMS OF HUMAN INTERLEUKIN-1BETA CONVERTING
; TITLE OF INVENTION: ENZYME AND METHODS OF USING THE SAME
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Woodcock, Washburn, Kurtz, Mackiewicz & No. 5856169-18
; STREET: One Liberty Place, 46th floor
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19103
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Windows
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/391,916A
; FILING DATE: 21-FEB-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Deluca, Mark
; REGISTRATION NUMBER: 33,229
; REFERENCE/DOCKET NUMBER: TJU-1464
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 568-3100
; TELEFAX: (215) 568-3439
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 383 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-391-916A-4

Query Match          11.4%; Score 70.5; DB 2; Length 383;
Best Local Similarity 22.0%; Pred. No. 2.6;
Matches 27; Conservative 20; Mismatches 37; Indels 39; Gaps 4;

QY 1 MSPRGTVCSLILGMLWLDLAMGSSFLSPHQVQVPRPHKAPHVVALPLSN----- 54
DB 62 IPKGAQAQCICITYICEDSYLAGTGLSAAPQAVQDN-----PAMPTSSGSGENV 112
QY 55 QLCDLEQQRHLW---ASVFSQSTKDS-----GSDLTVSGRTWGL 90
DB 113 KICSLERAGIWKQKSAEIVPIMDKSRRRLALICNEBFDSPRRRTGAEVDITGTMML 172
QY 91 RVL 93
DB 173 QNL 175

RESULT 12
US-09-764-803B-23
; Sequence 23, Application US/09764803B
; Patent No. 6759227
; GENERAL INFORMATION:
; APPLICANT: Van de Craen, Marc
```

APPLICANT: Declercq, Wim  
APPLICANT: Vandenaebale, Peter  
TITLE OF INVENTION: NEW CASPASE HOMOLOGUE  
FILE REFERENCE: 2676-4661US  
CURRENT APPLICATION NUMBER: US/09/764,803B  
CURRENT FILING DATE: 2001-01-17  
PRIOR APPLICATION NUMBER: PCT/EP99/04939  
PRIOR FILING DATE: 1999-07-12  
PRIOR APPLICATION NUMBER: EP 98202422.6  
PRIOR FILING DATE: 1999-07-17  
NUMBER OF SEQ ID NOS: 26  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO: 23  
LENGTH: 383  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: SITE  
LOCATION: (1) (383)  
OTHER INFORMATION: human capase-1 (genbank)  
US-09-764-803B-23

Query Match 11.4%; Score 70.5; DB 4; Length 383;  
Best Local Similarity 22.0%; Pred. No. 2.6;  
Matches 27; Conservative 20; Mismatches 37; Indels 39; Gaps 4;

QY 1 MPSECTVSLILGLMLDLAMAGSSFLSPHQRVQVRPPHAPVVPALPLSN----- 54  
DB 62 IPKGAQACICITCYCEEDSYLACTGLGSAAPQAVQDN-----PAMPTSSGSEGNV 112

QY 55 QLCDLEQQRHLW-----ASVFSGSTKDS-----GSDLTVSGRTWGL 90  
DB 113 KCLSEHQRIMKQKASATYIPMDKSRTRLALICNEEPDSIPRTTAEVDITGTMWL 172

QY 91 RVL 93  
DB 173 QNL 175

RESULT 13  
US-09-248-796A-19806  
; Sequence 19806, Application US/09248796A  
; Patent No. 6747137  
; GENERAL INFORMATION:  
; APPLICANT: Keith Weinstock et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN  
; FILE REFERENCE: 107196.132  
; CURRENT APPLICATION NUMBER: US/09/248,796A  
; PRIOR FILING DATE: 1999-02-12  
; PRIOR APPLICATION NUMBER: US 60/074,725  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: US 60/096,409  
; PRIOR FILING DATE: 1998-08-13  
; NUMBER OF SEQ ID NOS: 28208  
; SEQ ID NO: 19806  
; LENGTH: 393  
; TYPE: PRT  
; ORGANISM: Candida albicans  
US-09-248-796A-19806

Query Match 11.4%; Score 70.5; DB 4; Length 393;  
Best Local Similarity 31.6%; Pred. No. 2.7;  
Matches 24; Conservative 12; Mismatches 23; Indels 17; Gaps 4;

QY 39 PPHKAPHVVPALP-LSNQLCDLEQQRHLWASVFSOS-----TKDSGSDLTVSQRT 87  
DB 185 PPPAPQGLPSLPYTSMTETSSQOQHYSWTDQSHHNPVPPAHTTDSSTATTNT 244

QY 88 WGLRV-----LNLRLP 98  
DB 245 MPFOVSTNIDINR--FP 259

RESULT 14  
US-09-404-417A-11  
; Sequence 11, Application US/09404417A  
; Patent No. 6627729  
; GENERAL INFORMATION:  
; APPLICANT: Sheppard, Paul O.  
; APPLICANT: Delsher, Theresa A.  
; APPLICANT: Jaspers, Stephen R.  
; TITLE OF INVENTION: TML PEPTIDES  
; FILE REFERENCE: 97-04CI  
; CURRENT APPLICATION NUMBER: US/09/404,417A  
; CURRENT FILING DATE: 1999-09-23  
; NUMBER OF SEQ ID NOS: 13  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO: 11  
; LENGTH: 18  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-404-417A-11

Query Match 11.3%; Score 70; DB 4; Length 18;  
Best Local Similarity 93.3%; Pred. No. 0.038;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 24 GSSFLSPHQRVQVR 38  
DB 1 GSSFLSPHQRVQVR 15

RESULT 15  
US-09-949-016-7379  
; Sequence 7379, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CLO01307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: PasteSeq for Windows Version 4.0  
; SEQ ID NO: 7379  
; LENGTH: 835  
; TYPE: PRT  
; ORGANISM: Human  
US-09-949-016-7379

Query Match 11.2%; Score 69.5; DB 4; Length 835;  
Best Local Similarity 25.9%; Pred. No. 10;  
Matches 38; Conservative 14; Mismatches 44; Indels 51; Gaps 8;

QY 9 SLLILG-----MLMLDLAMAGSSP-----LSPEH-QRVQVR----- 38  
DB 71 SIILGATGDIKAYIMQGLFQLYLDAGRGHSFPGALITAPKQOELMAKALESLSC 130

QY 39 -----PPHKAHVVPALPLSNQLCDLEQQRHLWASVFSOSTKDSGSDLTVSQRTWGLRV 92  
DB 131 PKDWAPFHCSEH-----KDQFLQSLQYRQLKTAEDYQALNDIDIAQLGHA-----GLRE 179

QY 93 LNLRLP-----PPSSRRSRGRSHQPSGSP 115  
DB 180 AGRIFYSVPFPFAYEDIAININSSCRP 206

Wed Jul 27 09:47:28 2005

us-10-659-782b-32.ra1

Page 6

Search completed: July 26, 2005, 14:39:05  
Job time : 43 secs

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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: July 26, 2005, 14:29:30 ; Search time 155 Seconds

(without alignments)  
293.626 Million cell updates/sec

Title: US-10-659-782B-32

Perfect score: 620

Sequence: 1 MPSPGTVCSTLLIGTMLDL.....PPSRERSRSHQSCPEL 117

Scoring table:

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Searched: 1741741 seqs, 388992284 residues

Total number of hits satisfying chosen parameters: 1741741

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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1: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pep.\*  
2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep.\*  
3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep.\*  
4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep.\*  
5: /cgn2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB.pep.\*  
6: /cgn2\_6/ptodata/2/pubpaa/PCTUS\_PUBCOMB.pep.\*  
7: /cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pep.\*  
8: /cgn2\_6/ptodata/2/pubpaa/US08\_PUBCOMB.pep.\*  
9: /cgn2\_6/ptodata/2/pubpaa/US09A\_PUBCOMB.pep.\*  
10: /cgn2\_6/ptodata/2/pubpaa/US09B\_PUBCOMB.pep.\*  
11: /cgn2\_6/ptodata/2/pubpaa/US09C\_PUBCOMB.pep.\*  
12: /cgn2\_6/ptodata/2/pubpaa/US09\_NEW\_PUB.pep.\*  
13: /cgn2\_6/ptodata/2/pubpaa/US10\_PUBCOMB.pep.\*  
14: /cgn2\_6/ptodata/2/pubpaa/US10B\_PUBCOMB.pep.\*  
15: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep.\*  
16: /cgn2\_6/ptodata/2/pubpaa/US10D\_PUBCOMB.pep.\*  
17: /cgn2\_6/ptodata/2/pubpaa/US10E\_PUBCOMB.pep.\*  
18: /cgn2\_6/ptodata/2/pubpaa/US10\_NEW\_PUB.pep.\*  
19: /cgn2\_6/ptodata/2/pubpaa/US11A\_PUBCOMB.pep.\*  
20: /cgn2\_6/ptodata/2/pubpaa/US11\_NEW\_PUB.pep.\*  
21: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep.\*  
22: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	605.5	97.7	116	17	US-10-659-782A-32
2	198	31.9	60	15	US-10-294-191A-3
3	198	31.9	91	16	US-10-477-506-2
4	198	31.9	117	9	US-09-794-987-2
5	198	31.9	117	9	US-09-853-253-2
6	198	31.9	117	9	US-09-988-722-268
7	198	31.9	117	9	US-09-988-723-268
8	198	31.9	117	9	US-09-989-279-268
9	198	31.9	117	9	US-09-989-727-268
10	198	31.9	117	9	US-09-989-731-268
11	198	31.9	117	9	US-09-989-732-268

12	198	31.9	117	9	US-09-991-073-268	Sequence 268, App
13	198	31.9	117	9	US-09-990-442-268	Sequence 268, App
14	198	31.9	117	9	US-09-991-163-268	Sequence 268, App
15	198	31.9	117	9	US-09-993-604-268	Sequence 268, App
16	198	31.9	117	9	US-09-990-456-268	Sequence 268, App
17	198	31.9	117	9	US-09-989-721-268	Sequence 268, App
18	198	31.9	117	9	US-09-992-598-268	Sequence 268, App
19	198	31.9	117	9	US-09-989-293A-268	Sequence 268, App
20	198	31.9	117	9	US-09-989-735-268	Sequence 268, App
21	198	31.9	117	9	US-09-990-444-268	Sequence 268, App
22	198	31.9	117	9	US-09-991-181-268	Sequence 268, App
23	198	31.9	117	9	US-09-989-730-268	Sequence 268, App
24	198	31.9	117	9	US-09-990-436-268	Sequence 268, App
25	198	31.9	117	9	US-09-993-687-268	Sequence 268, App
26	198	31.9	117	10	US-09-989-734-268	Sequence 268, App
27	198	31.9	117	10	US-09-997-653-268	Sequence 268, App
28	198	31.9	117	10	US-09-989-724-268	Sequence 268, App
29	198	31.9	117	10	US-09-989-728-268	Sequence 268, App
30	198	31.9	117	10	US-09-990-441-268	Sequence 268, App
31	198	31.9	117	10	US-09-993-667-268	Sequence 268, App
32	198	31.9	117	10	US-09-997-428-268	Sequence 268, App
33	198	31.9	117	10	US-09-997-666-268	Sequence 268, App
34	198	31.9	117	10	US-09-990-438-268	Sequence 268, App
35	198	31.9	117	10	US-09-990-562-268	Sequence 268, App
36	198	31.9	117	10	US-09-990-711-268	Sequence 268, App
37	198	31.9	117	10	US-09-989-726-268	Sequence 268, App
38	198	31.9	117	10	US-09-998-156-268	Sequence 268, App
39	198	31.9	117	10	US-09-990-437-268	Sequence 268, App
40	198	31.9	117	10	US-09-991-157-268	Sequence 268, App
41	198	31.9	117	10	US-09-991-157-268	Sequence 268, App
42	198	31.9	117	10	US-09-997-514-268	Sequence 268, App
43	198	31.9	117	10	US-09-991-172-268	Sequence 268, App
44	198	31.9	117	10	US-09-990-726-268	Sequence 268, App
45	198	31.9	117	10	US-09-997-559-268	Sequence 268, App

## ALIGNMENTS

RESULT 1

US-10-659-782A-32

Sequence 32, Application US/10659782A

Publication No. US20050059015A1

GENERAL INFORMATION:

APPLICANT: Mintz, Liat

TITLE OF INVENTION: Compositions, Reagents and Kits for and Methods of Diagnosing,

FILE REFERENCE: 28238

CURRENT APPLICATION NUMBER: US/10/659,782A

CURRENT FILING DATE: 2003-09-11

NUMBER OF SEQ ID NOS: 42

SOFTWARE: PatentIn version 3.2

SEQ ID NO 32

LENGTH: 116

TYPE: PRT

ORGANISM: Homo sapiens

US-10-659-782A-32

Query Match 97.7%; Score 605.5; DB 17; Length 116;  
Best Local Similarity 99.1%; Pred. No. 9,9e-58;  
Matches 116; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 MPSPGTVCSTLLIGTMLDLAMAGSSTLSPEHQRVQVRPPHKAHVVPALPLSNQCLDL 60

Db 1 MPSPGTVCSTLLIGTMLDLAMAGSSTLSPEHQRVQVRPPHKAHVVPALPLSNQCLDL 60

QY 61 QQRHMASVPSQSTKSGSDLTIVSGRTWGLRVNRLPPSRERSRSHQSCPEL 117

Db 61 QQRHMASVPSQSTKSGSDLTIVSGRTWGLRVNRLPPSRERSRSHQSCPEL 116

RESULT 2

US-10-294-191A-3

; Sequence 3, Application US/10294191A  
; Publication No. US20030211512A1  
; GENERAL INFORMATION:  
; APPLICANT: Rothschild, Max F.  
; APPLICANT: Kim, Kwan Suk  
; APPLICANT: Anderson, Lloyd L.  
; TITLE OF INVENTION: Novel Ghrelin Alleles and Use of the Same for Genetically Typing  
; FILE REFERENCE: P05408U51  
; CURRENT APPLICATION NUMBER: US/10/294,191A  
; CURRENT FILING DATE: 2002-11-14  
; PRIOR APPLICATION NUMBER: US 60/333,222  
; PRIOR FILING DATE: 2001-11-14  
; NUMBER OF SEQ ID NOS: 16  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 3  
; LENGTH: 60  
; TYPE: PRT  
; ORGANISM: Human  
US-10-294-191A-3

Query Match 31.9%; Score 198; DB 15; Length 60;  
Best Local Similarity 88.6%; Pred. No. 8.4e-14;  
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

OY 1 MPSPGTVCSLLLGLMLMDLMAAGSSFLSPHQRVQVPPHKA 44  
DB 1 MPSPGTVCSLLLGLMLMDLMAAGSSFLSPHQRVQVPPHKA 44

RESULT 3  
US-10-477-506-2  
; Sequence 2, Application US/10477506  
; Publication No. US20040157227A1  
; GENERAL INFORMATION:  
; APPLICANT: Chopin, Lisa K  
; APPLICANT: Jeffery, Penelope L  
; APPLICANT: Herington, Adrian C  
; TITLE OF INVENTION: REPRODUCTIVE CANCER DIAGNOSIS AND THERAPY  
; FILE REFERENCE: 225181  
; CURRENT APPLICATION NUMBER: US/10/477,506  
; CURRENT FILING DATE: 2003-11-10  
; PRIOR APPLICATION NUMBER: PR3567  
; PRIOR FILING DATE: 2001-12-17  
; PRIOR APPLICATION NUMBER: PR4919  
; PRIOR FILING DATE: 2001-05-10  
; PRIOR APPLICATION NUMBER: PCT/AU02/000582  
; PRIOR FILING DATE: 2002-05-10  
; NUMBER OF SEQ ID NOS: 17  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 2  
; LENGTH: 91  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-477-506-2

Query Match 31.9%; Score 198; DB 16; Length 91;  
Best Local Similarity 88.6%; Pred. No. 1.4e-13;  
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

OY 1 MPSPGTVCSLLLGLMLMDLMAAGSSFLSPHQRVQVPPHKA 44  
DB 1 MPSPGTVCSLLLGLMLMDLMAAGSSFLSPHQRVQVPPHKA 44

RESULT 4  
US-09-794-987-2  
; Sequence 2, Application US/09794987  
; Patent No. US20010041791A1  
; GENERAL INFORMATION:  
; APPLICANT: Sheppard, Paul O.  
; APPLICANT: Deisher, Theresa A.  
; TITLE OF INVENTION: MOTILIN HOMOLOGS  
; NUMBER OF SEQUENCES: 7

; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Zymogenetics, Inc.  
; STREET: 1201 Eastlake Avenue East  
; CITY: Seattle  
; STATE: WA  
; COUNTRY: USA  
; ZIP: 98102  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/794,987  
; FILING DATE: 27-Feb-2001  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 09/046,479  
; FILING DATE: <Unknown>  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Sawislak, Deborah A  
; REGISTRATION NUMBER: 37,438  
; REFERENCE/DOCKET NUMBER: 97-04  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 206-442-6672  
; TELEFAX: 206-442-6678  
; TELEX: <Unknown>  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 117 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; FRAGMENT TYPE: internal  
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
US-09-794-987-2

Query Match 31.9%; Score 198; DB 9; Length 117;  
Best Local Similarity 88.6%; Pred. No. 1.9e-13;  
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

OY 1 MPSPGTVCSLLLGLMLMDLMAAGSSFLSPHQRVQVPPHKA 44  
DB 1 MPSPGTVCSLLLGLMLMDLMAAGSSFLSPHQRVQVPPHKA 44

RESULT 5  
US-09-853-253-2  
; Sequence 2, Application US/09853253  
; Patent No. US20020055156A1  
; GENERAL INFORMATION:  
; APPLICANT: JASPER, STEPHEN  
; APPLICANT: SHEPPARD, PAUL  
; APPLICANT: DEISHER, THERESA  
; APPLICANT: BISHOP, PAUL  
; TITLE OF INVENTION: Zsfg33-like Peptides  
; FILE REFERENCE: 00-30  
; CURRENT APPLICATION NUMBER: US/09/853,253  
; CURRENT FILING DATE: 2001-05-10  
; PRIOR APPLICATION NUMBER: 60/203,300  
; PRIOR FILING DATE: 2000-05-11  
; NUMBER OF SEQ ID NOS: 28  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 2  
; LENGTH: 117  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-853-253-2

Query Match 31.9%; Score 198; DB 9; Length 117;  
Best Local Similarity 88.6%; Pred. No. 1.9e-13;  
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;



Oy 1 MPSPGVCSLLILGLMTLMDLAWGSSFLSPFHQRYOVRPHKAP 44  
Db 1 MPSPGVCSLLILGLMTLMDLAWGSSFLSPFHQRYOVRPHKAP 44

RESULT 6  
US-09-989-722-268  
Sequence 268: Application US/09989722  
Patent No. US20020072067A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Boetstein, David  
APPLICANT: Deamoys, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Geritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, V. Christopher  
APPLICANT: Guiney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoli, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zhenli  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C63  
CURRENT APPLICATION NUMBER: US/09/989,722  
CURRENT FILING DATE: 2001-11-19  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28  
PRIOR APPLICATION NUMBER: 60/084600  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/087106  
PRIOR FILING DATE: 1998-05-28  
PRIOR APPLICATION NUMBER: 60/087607  
PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087609  
PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087759  
PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087827  
PRIOR FILING DATE: 1998-06-03  
PRIOR APPLICATION NUMBER: 60/088021  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088025  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088026

PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088028  
PRIOR FILING DATE: 1998-06-04  
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PRIOR FILING DATE: 1998-06-04  
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PRIOR FILING DATE: 1998-06-04  
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PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088326  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088167  
PRIOR FILING DATE: 1998-06-05  
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PRIOR APPLICATION NUMBER: 60/088217  
PRIOR FILING DATE: 1998-06-05  
PRIOR APPLICATION NUMBER: 60/088655  
PRIOR FILING DATE: 1998-06-09  
PRIOR APPLICATION NUMBER: 60/088734  
PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088738  
PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088742  
PRIOR FILING DATE: 1998-06-10  
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PRIOR FILING DATE: 1998-06-10  
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PRIOR FILING DATE: 1998-06-10  
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PRIOR FILING DATE: 1998-06-11  
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PRIOR FILING DATE: 1998-06-18  
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PRIOR FILING DATE: 1998-06-19  
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PRIOR FILING DATE: 1998-06-22

PRIOR APPLICATION NUMBER: 60/090252  
PRIOR FILING DATE: 1998-06-22  
PRIOR APPLICATION NUMBER: 60/090254  
PRIOR FILING DATE: 1998-06-22  
PRIOR APPLICATION NUMBER: 60/090349  
PRIOR FILING DATE: 1998-06-23  
PRIOR APPLICATION NUMBER: 60/090355  
PRIOR FILING DATE: 1998-06-23  
PRIOR APPLICATION NUMBER: 60/090429  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090431  
PRIOR FILING DATE: 1998-06-24  
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PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090444  
PRIOR FILING DATE: 1998-06-24  
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PRIOR FILING DATE: 1998-06-24  
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PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090557  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090676  
PRIOR FILING DATE: 1998-06-25  
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PRIOR APPLICATION NUMBER: 60/090863  
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PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091478  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091544  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091519  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091626  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 31.9%; Score 198; DB 9; Length 117;  
Best Local Similarity 88.6%; Pred. No. 1,9e-13;  
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Cy 1 MSPSGTVCSTLLGLMTDLMAAGSSFLSPFHQRYQVPPHKAP 44  
Db 1 MSPSGTVCSTLLGLMTDLMAAGSSFLSPFHQRYQVPPHKAP 44

RESULT 7

US-09-989-723-268  
Sequence 268, Application US/09989723  
Patent No. US20020072092A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerltsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gunney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas P.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730PIC62  
CURRENT APPLICATION NUMBER: US/09/989,723  
CURRENT FILING DATE: 2001-11-19  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28  
PRIOR APPLICATION NUMBER: 60/084600  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/087106  
PRIOR FILING DATE: 1998-05-28  
PRIOR APPLICATION NUMBER: 60/087607  
PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087609  
PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087759  
PRIOR FILING DATE: 1998-06-02  
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Query Match 31.9%; Score 198; DB 9; Length 117;  
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Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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Db 1 MSPGTCSTLLGMLWLDLMMGSSFLSPSHORVOVRPHKSKRP 44

RESULT 8  
US-09-989-279-268  
Sequence 268; Application us/09989279  
Patent No. US20020072496A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David

APPLICANT: Deenoeyers, Luc  
APPLICANT: Baton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Geritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gunney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730P1C36  
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Db 1 MSPGTVCSLLLLGLMTLMDLMAAGSSFLSPHQRVQVPPHKA 44

RESULT 9  
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Patent No. US20020072497A1  
GENERAL INFORMATION:  
;; APPLICANT: Ashkenazi, Avi J.  
;; APPLICANT: Baker, Kevin P.  
;; APPLICANT: Botstein, David  
;; APPLICANT: Desnoyers, Luc  
;; APPLICANT: Eacon, Dan L.  
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;; APPLICANT: Williams, P. Mickey  
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;; APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730PIC65  
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;; PRIOR APPLICATION NUMBER: 60/091978  
;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/091982  
;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/092182  
;; PRIOR FILING DATE: 1998-07-09

Query Match 31.9%; Score 198; DB 9; Length 117;  
Best Local Similarity 88.6%; Pred. No. 1.9e-13;  
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 MSPRGTCSTLLGMLTDLAMGSSFTLSPEHQRVQRPFHXP 44  
Db 1 MSPRGTCSTLLGMLTDLAMGSSFTLSPEHQRVQRPFHXP 44

RESULT 10  
US-09-989-731-268  
; Sequence 268; Application US/09989731  
; Patent No. US20020103125A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gottlieb, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kijavini, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.

APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730P1C70  
CURRENT FILING DATE: 2001-11-20  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
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PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/076910  
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; PRIOR APPLICATION NUMBER: 60/090676
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; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09
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Query Match          31.9%; Score 198; DB 9; Length 117;
Best Local Similarity 88.6%; Pred.No. 1.9e-13;
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
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Qy      1  MSPGVCSTLLGLMTWIDLMAGSSFLSPHQRVQRPPIKAP 44
Db      1  MSPGVCSTLLGLMTWIDLMAGSSFLSPHQRVQRPPIKAP 44
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## RESULT 11

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US-09-989-732-268
Sequence 268, Application US/09989732
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Patent No. US20020123463A1
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## GENERAL INFORMATION:

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; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Deenoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerriksen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
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; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P270P1C57
; CURRENT APPLICATION NUMBER: US/09/989,732
; CURRENT FILING DATE: 2001-11-19
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
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PRIOR APPLICATION NUMBER: 60/088861  
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PRIOR FILING DATE: 1998-07-07  
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PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 31.9%; Score 198; DB 9; Length 117;  
Best Local Similarity 88.6%; Pred. No. 1,9e-13;  
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 MSPRTVCSLLILGMLDILAMAGSSFLSPHQVQVRPHKAP 44  
Db 1 MSPRTVCSLLILGMLDILAMAGSSFLSPHQVQVRPHKAP 44

## RESULT 12

US-09-991-073-268  
Sequence 268, Application US/09991073  
Patent No. US20020127576A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gertlisen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Acids Encoding the Same  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730P1C5  
CURRENT APPLICATION NUMBER: US/09/991,073  
CURRENT FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16

[illegible]

;; PRIOR APPLICATION NUMBER: 60/090863  
;; PRIOR FILING DATE: 1998-06-26  
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;; PRIOR FILING DATE: 1998-07-09

Query Match 31.9%; Score 198; DB 9; Length 117;  
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Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Cy 1 MPSPTGCSLLIGLWLTDLAMAGSSFLSPHQRVQVRPPHKAP 44  
Db 1 MPSPTGCSLLIGLWLTDLAMAGSSFLSPHQRVQVRPPHKAP 44

RESULT 13  
US-09-990-442-268

;; Sequence 268 Application US/09990442  
;; Patent No. US2002013252A1

## GENERAL INFORMATION:

;; APPLICANT: Ashkenazi, Avi J.  
;; APPLICANT: Baker, Kevin P.  
;; APPLICANT: Botstein, David  
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;; APPLICANT: Eaton, Dan L.  
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;; APPLICANT: Stewart, Timothy A.  
;; APPLICANT: Tumas, Daniel  
;; APPLICANT: Watanabe, Colin K.  
;; APPLICANT: Williams, P. Mickey  
;; APPLICANT: Wood, William I.  
;; APPLICANT: Zhang, Zemin  
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
;; FILE REFERENCE: P2730P1C8  
;; CURRENT APPLICATION NUMBER: US/09/990,442  
;; CURRENT FILING DATE: 2001-11-14  
;; PRIOR APPLICATION NUMBER: 60/049787  
;; PRIOR FILING DATE: 1997-06-16  
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PRIOR FILING DATE: 1998-07-01  
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PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091519  
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PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092162  
PRIOR FILING DATE: 1998-07-09

Query Match 31.9%; Score 198; DB 9; Length 117;  
Best Local Similarity 88.6%; Pred. No. 1.9e-13;  
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 MPSPGVCSLLILGMLTDLAMAGSSFLSPDHQVQVPPHKAP 44  
Db 1 MPSPGVCSLLILGMLTDLAMAGSSFLSPDHQVQVPPHKAP 44

RESULT 14  
US-09-991-163-268  
Sequence 268, Application US/09991163  
Patent No. US20020132253A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Bolstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Baton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Geriltsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gunney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tamas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730PIC17  
CURRENT APPLICATION NUMBER: US/09/991,163  
CURRENT FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
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PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28

[illegible]

PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 31.9%; Score 198; DB 9; Length 117;  
Best Local Similarity 88.6%; Pred. No. 1.9e-13;  
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RESULT 15  
US-09-993-604-268  
Sequence 268, Application US/09993604  
Patent No. US20020137075A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Deenoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerltzen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Grimaldi, J Christopher  
APPLICANT: Gutney, Austin L.  
APPLICANT: Klavijn, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C25  
CURRENT APPLICATION NUMBER: US/09/993,604  
PRIOR FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
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PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 31.9%; Score 198; DB 9; Length 117;  
Best Local Similarity 88.6%; Pred. No. 1,9e-11;  
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;  
Oy 1 MSPGTVCSILLGMLWDLAMAGSSFLSPHQRVQVRPPKAP 44  
Db 1 MSPGTVCSILLGMLWDLAMAGSSFLSPHQRVQVRPPKAP 44

Search completed: July 26, 2005, 14:42:56  
Job time : 157 secs

mis Page Blank (uspto)



GenCore version 5.1.6  
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## OM protein - protein search, using sw model

Run on: July 26, 2005, 14:11:02 ; Search time 174 Seconds  
(without alignments)  
260.063 Million cell updates/sec

Title: US-10-659-782B-32  
Perfect score: 620

Sequence: 1 MPSTGTCVSLLLGMLWLDL.....PPSRERSRRSHQPSCPSEL 117

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 2105692

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 100%  
Listing first 45 summaries

## Database : A Geneseq 16Dec04:\*

1: Geneseqp1980s:\*  
2: Geneseqp1990s:\*  
3: Geneseqp2000s:\*  
4: Geneseqp2001s:\*  
5: Geneseqp2002s:\*  
6: Geneseqp2003as:\*  
7: Geneseqp2003bs:\*  
8: Geneseqp2004s:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	198	31.9	60	8	ADK66754 Human ghr
2	198	31.9	91	6	AAE33410 Human exo
3	198	31.9	117	2	AAW87991 Protein d
4	198	31.9	117	3	AAV87236 Human sig
5	198	31.9	117	4	AAE20101 Zs1933 pr
6	198	31.9	117	4	AAE62649 Human zsi
7	198	31.9	117	4	AAE38890 Human pol
8	198	31.9	117	4	AAE60511 Human ghr
9	198	31.9	117	5	ABE78319 Amino aci
10	198	31.9	117	5	AAE23838 Human zsi
11	198	31.9	117	5	AAE15883 Human zsi
12	198	31.9	117	6	ABU58046 Human PRO
13	198	31.9	117	6	ABU59124 Novel hum
14	198	31.9	117	6	ABU82636 Human sec
15	198	31.9	117	6	ABO17836 Novel hum
16	198	31.9	117	6	ABU60555 Human sec
17	198	31.9	117	6	ABU13937 Human PRO
18	198	31.9	117	6	ABU81090 Human PRO
19	198	31.9	117	6	ABU72522 Novel hum
20	198	31.9	117	6	ABU66790 Human PRO
21	198	31.9	117	6	ABU59871 Novel sec
22	198	31.9	117	6	ABU59271 Human sec
23	198	31.9	117	6	ABO25968 Human PRO
24	198	31.9	117	6	ABO25061 Human sec
25	198	31.9	117	6	ABU58977 Human sec

## ALIGNMENTS

26	198	31.9	117	6	ABU92355 Novel hum
27	198	31.9	117	6	AAE33409 Human pre
28	198	31.9	117	6	ABU59420 Novel hum
29	198	31.9	117	6	ABU67066 Human sec
30	198	31.9	117	6	ABU92186 Novel hum
31	198	31.9	117	6	ABU10892 Human PRO
32	198	31.9	117	6	ABU81644 Novel hum
33	198	31.9	117	6	ABU88583 Human sec
34	198	31.9	117	6	ABO34097 Human PRO
35	198	31.9	117	6	ADA45961 Novel hum
36	198	31.9	117	6	ADA76392 Human PRO
37	198	31.9	117	6	ADA19042 Human PRO
38	198	31.9	117	6	ADA61665 Homo sapi
39	198	31.9	117	6	ADA19450 Novel hum
40	198	31.9	117	6	ADA27991 Human PRO
41	198	31.9	117	6	ADA86470 Novel hum
42	198	31.9	117	6	ADA16034 Human PRO
43	198	31.9	117	6	ADA37779 Human sec
44	198	31.9	117	6	ADA47820 Human PRO
45	198	31.9	117	6	ADA21465 Human sec

## RESULT 1

ID	ADK6754	standard; protein; 60 AA.
XX	AC	
XX	ADK6754;	
DT	06-MAY-2004	(first entry)
XX		
DE	Human ghrelin protein #1.	
XX		
KW	Growth; appetite; fatness; genotype; polymorphism; ghrelin protein; breeding; human.	
XX		
OS	Homo sapiens.	
XX		
PN	US2003211512-A1.	
XX		
PD	13-NOV-2003.	
XX		
PF	14-NOV-2002; 2002US-00294191.	
XX		
PR	14-NOV-2001; 2001US-0333222P.	
XX		
PA	(ROTH/) ROTHSCHILD M F.	
PA	(KITMK/) KIM K.	
PA	(ANDE/) ANDERSON L L.	
XX		
PI	Rothschild MF, Kim K, Anderson LL;	
XX		
DR	WPI; 2004-010667/01.	
XX		
PT	Screening animals (i.e. pigs) to determine those more likely to produce desired growth, appetite and fatness to optimize breeding and selection techniques comprises detecting the presence of a polymorphism in the Ghrelin gene.	
XX		
PS	Disclosure; SEQ ID NO 3; 24pp; English.	
XX		
CC	The present invention relates to a method of screening animals to determine those more likely to produce desired growth, appetite and fatness which involves obtaining a sample of genetic material from the animal and assaying for the presence of a genotype in the animal which is associated with favourable growth, appetite and fatness; the genotype is characterised by a polymorphism in the ghrelin gene. The composition and methods are useful in screening animals (i.e. pigs) to determine those more or less likely to produce desired growth, appetite and fatness to optimise breeding and selection techniques. The present sequence is human ghrelin protein of the invention.	



XX 11-MAY-2000 (first entry)  
DT  
XX  
XX  
DE Human signal peptide containing protein HSP-13 SEQ ID NO:13.  
KW Human; signal peptide-containing protein; HSP; diagnosis; cancer;  
KW inflammation; cardiovascular disease; anticancer; anti-inflammatory;  
KW antimicrobial; neurotropic; neuroprotective; cardiovascular; hepatocytic;  
KW antiaesthetic; gene therapy; cell proliferation; neurological disorder;  
KW reproductive disorder; developmental disorder; arteriosclerosis;  
KW cirrhosis; psoriasis; acquired immune deficiency syndrome; anaemia;  
KW asthma; Crohn's disease; infection; Alzheimer's disease; schizophrenia;  
KW Parkinson's disease; Huntington's disease; ovulatory defect;  
KW muscular dystrophy.  
XX  
XX Homo sapiens.  
OS  
XX  
XX WO200000610-A2.  
PN  
XX  
XX 06-JAN-2000.  
PD  
XX  
XX 25-JUN-1999; 99WO-US014484.  
PF  
XX  
XX 26-JUN-1998; 98US-0090762P.  
PR 31-JUL-1998; 98US-0094983P.  
PR 01-OCT-1998; 98US-0102686P.  
PR 01-DEC-1998; 98US-0112129P.  
XX  
XX (INCY-) INCYTE PHARM INC.  
PA  
XX  
XX Lal P, Tang YT, Gorgone GA, Corley NC, Guegler KJ, Baughn MR;  
PI Akeblom IE, Au-Young J, Yue H, Patterson C, Reddy R, Hillman JL;  
PI Bardman O;  
XX  
XX WPI; 2000-160673/14.  
DR N-PSDB; AAZ98121.  
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XX  
XX New human signal peptide-containing proteins useful in treatment,  
PT prevention and diagnosis of e.g. cancer, inflammation and cardiovascular  
PT disease.  
XX  
XX  
XX Claim 1; Page 168-169; 327pp; English.  
PS  
XX  
XX AAZ98109 to AAZ98242 encode AAY87224 to AAY87357 which represent the  
XX human signal peptide-containing proteins HSP-1 to HSP-134. HSPs have  
XX anticancer, anti-inflammatory, antimicrobial, neurotropic, hepatotropic,  
XX neuroprotective, cardiovascular and antiaesthetic activities, and can be  
XX used in gene therapy. HSPs can be used to treat or prevent disorders  
XX associated with decreased activity or function of HSP. Antagonists of  
XX HSP are used to treat or prevent disorders associated with increased  
XX activity or function of HSP. Such diseases include cell proliferation  
XX (including cancer), inflammation, cardiovascular, neurological,  
XX reproductive or developmental disorders (e.g. arteriosclerosis,  
XX cirrhosis, psoriasis, acquired immune deficiency syndrome, anaemia,  
XX asthma, Crohn's disease, microbial or other infections, congestive or  
XX ischaemic heart disease, Alzheimer's, Parkinson's or Huntington's  
XX diseases, schizophrenia, ovulatory defects, muscular dystrophy). HSP  
XX nucleic acids can be used for the recombinant production of HSP, for  
XX detecting HSP in standard hybridisation and amplification assays (for  
XX diagnosis and monitoring), in gene therapy, as antisense, triplex-forming  
XX or ribozyme therapeutics, for detecting related sequences or genetic  
XX variations, and for chromosomal mapping. HSP are also used to raise  
XX specific antibodies (Ab) and to screen for agonists and antagonists  
XX (potential therapeutic agents). Ab are used to diagnose, or monitor, HSP  
XX related diseases (in usual immunoassays), as therapeutic antagonists, in  
XX competitive drug screens, and for purification of HSP from natural  
XX sources  
XX  
XX Sequence 117 AA;  
SQ  
XX  
XX Query Match 31.9%; Score 198; DB 3; Length 117;  
XX Best Local Similarity 88.6%; Pred. No. 2.4e-14;  
XX Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Query MSPTGTCSTLLTGLMTLMDLAMAGSSFLSPHHQVQRPPHAP 44  
DB 1 MPSFGTVCSLLTLGLMTLMDLAMAGSSFLSPHHQVQRKESKKP 44

MSPTGTCSTLLTGLMTLMDLAMAGSSFLSPHHQVQRPPHAP 44  
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1 MPSFGTVCSLLTLGLMTLMDLAMAGSSFLSPHHQVQRKESKKP 44

RESULT 5  
AAB20101  
ID AAB20101 standard; protein; 117 AA.

AAC AC AAB20101;  
XX DT 23-APR-2001 (first entry)  
DE Zsig33 protein.  
XX SGIP; zsig33; anorectic; antidiabetic; somatotropin; somatomedin-C;  
KW nutritional absorption modulator; growth hormone secretagogue; therapy;  
human.  
XX Homo sapiens.  
OS  
FH Key Location/Qualifiers  
FT Peptide 1..23 /label= Signal\_peptide  
FT Protein 24..117 /label= Mature\_protein  
FT Peptide 24..34 /label= SGIP peptide  
FT /note= "this peptide is claimed in Claim 1"

WO200100830-AI.  
PN 04-JAN-2001.  
PD 30-JUN-2000; 2000WO-US018306.  
PF 30-JUN-1999; 99US-00345157.  
PR (ZYMO ) ZYMOGENETICS INC.  
PA Sheppard PO, Jaegers SR, Deisher TA, Bishop PD;  
PI MPI; 2001-123010/13.  
DR N-PEDB; AAP30033.

Noel variants of SGIP peptides for modulating contractility in duodenum  
PT or jejunal tissue, pancreatic secretion of hormones and digestive  
PT enzymes, inducing growth hormone secretion or modulating gastric  
emptying.

PS Disclosure: 54; 61pp; English.

The present sequence is that of zsig33, a secreted protein with homology  
to motilin (see AAB20102). Zsig33 is expressed at high levels in the  
stomach, and at lower levels in the small intestine and pancreas. A novel  
peptide fragment of zsig33, termed SGIP (see AAB20100), is claimed. SGIP  
is a ligand for growth hormone secretagogue receptor, and is therefore  
useful for modulating secretion of growth hormone and insulin like growth  
factor I. SGIP, and variant SGIP peptides, are used in claimed methods  
for stimulating contractability in duodenum or jejunum tissue, modulating  
pancreatic secretion of hormones and digestive enzymes, inducing growth  
hormone secretion, and modulating gastric emptying

Sequence 117 AA;

Query Match 31.9%; Score 198; DB 4; Length 117;  
Best Local Similarity 88.6%; Pred. No. 2,4e-14;  
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;





AC	AAE23838;
XX	10-SEP-2002 (first entry)
XX	
DE	Human zsig33 protein.
XX	
KW	Human; zsig33-like peptide; gastric contractility; nutrient uptake;
KW	growth hormone; digestive enzyme; restorative therapy; gene therapy;
KW	protein therapy; gastrointestinal; endocrine; anabolic.
XX	
OS	Homo sapiens.
XX	
PN	US2002055156-A1.
PD	
XX	09-MAY-2002.
PF	
XX	10-MAY-2001; 2001US-00853253.
PR	
XX	11-MAY-2000; 2000US-0203300P.
PA	(JASP/) JASPER S R.
PA	(SHEP/) SHEPPARD P O.
PA	(DEIS/) DEISHER T A.
XX	(BISH/) BISHOP P D.
PI	Jaspers SR, Sheppard PO, Deisher TA, Bishop PD;
DR	WPI; 2002-443750/47.
DR	N-PSTDB; AAD38238.
PT	
PT	ZSIG33-like peptides and polynucleotides, useful for modulating gastric
XX	contractility, nutrient uptake, growth hormones and/or secretion of
XX	digestive/pancreatic enzymes and hormones.
PS	Disclosure; Page 27; 34pp; English.
XX	
XX	The invention relates to zsig33-like peptides and their corresponding
CC	nucleic acids and methods for modulating gastric contractility, nutrient
CC	uptake, growth hormones, secretion of digestive enzymes and hormones. The
CC	sequences of the invention are used in the prevention, diagnosis and
CC	treatment of diseases associated with inappropriate ZSIG33 expression.
CC	The nucleic acids of the invention and their complements are used as DNA
CC	probes in diagnostic assays to detect and quantitate the presence of
CC	similar nucleic acids in samples, and therefore which patients may be in
CC	need of restorative therapy. The ZSIG33 peptides are used as antigens in
CC	the production of antibodies against ZSIG33 and in assays to identify
CC	modulators of ZSIG33 expression and activity. The anti-ZSIG33 antibodies
CC	and antagonists are used to down regulate expression and activity. The
CC	anti-ZSIG33 antibodies are also used as diagnostic agents for detecting
CC	the presence of ZSIG33 in samples (e.g. by enzyme linked immunosorbent
CC	assay (ELISA)). The peptides and nucleic acids of the invention are used
CC	to modulate gastric contractility, nutrient uptake, growth hormones, the
CC	secretion of digestive enzymes and hormones, and/or secretion of enzymes
CC	and/or hormones in the pancreas. zsig33-like DNA is used in gene therapy
CC	and zsig33-like peptide is used in protein therapy. The present sequence
CC	is human zsig33 protein
XX	
SQ	Sequence 117 AA;
XX	
Query Match	31.9%; Score 198; DB 5; Length 117;
Best Local Similarity	88.6%; Pred. No. 2.4e-14;
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DB	1 MPSPGVCSLLILGLMLDLDLAAGSSFLSPERHQVVRPHKAP 44
AAE15883	
ID	AAE15883 standard; protein; 117 AA.
XX	
AC	AAE15883;

DT	26-MAR-2002	(first entry)
XX		
XX		
DE	Human zsig33 protein.	
XX		
KW	Human; zsig33-like peptide; ZS33LP; immunity; developmental process;	
KW	infection; human immunodeficiency virus; vaccine; antihypoglycaemic;	
KW	adaptorion enhancer; gastrointestinal disease; growth related disease;	
KM	inflammation; gene therapy; growth regulation; blood vessel formation;	
KM	HIV; zsig33 protein.	
OS		
XX	Homo sapiens.	
XX		
FH	Key	Location/Qualifiers
FT	Peptide	1..23
FT		/label=Signal_peptide
FT	Protein	24..117
FT		/note="Human mature zsig33 protein"
PN	WO200187933-A2.	
PD	22-NOV-2001.	
PF	10-MAY-2001; 2001WO-US015091.	
PR	11-MAY-2000; 2000US-00569271.	
PA	(ZYMO ) ZYMOGENETICS INC.	
PI	Jaspers SR, Sheppard PO, Delsher TA, Bishop PD;	
DR	WPI; 2002-082982/11.	
N-PSDB:	AAD25759.	
PT	New polypeptides, useful for modulating gastric contractility, nutrient	
PT	uptake, pancreatic secretion of hormones, digestive enzymes and treating	
PT	gastrointestinal and growth related diseases, comprises zsig33-like	
PT	peptides.	
PS		
XX	Disclosure; Page 80-81; 89pp; English.	
CC	The invention relates to zsig33-like peptides (ZS33LP) including zsig33-	
CC	linker, zsig33-beta, zsig33-gamma, zsig33-delta and zsig33-pepton	
CC	peptide and nucleic acid molecules encoding such zsig33-like peptides.	
CC	ZS33LP peptides activate the immune system in boosting immunity to	
CC	infectious diseases, treating immunocompromised patients such as human	
CC	immunodeficiency virus (HIV) patients, in improving vaccines and in	
CC	treatment of bacterial, viral, protozoal and fungal infections. Peptides	
CC	of the invention are used to identify and isolate receptors involved in	
CC	growth regulation in the liver, blood vessel formation and other	
CC	developmental processes. They are useful for evaluating functions of	
CC	hypothalamus-pituitary-adrenal axis, to modulate growth and/or	
CC	differentiation of tumour cells, as additives to anti-hypoglycaemic	
CC	preparations containing glucose and as adsorption enhancers for oral	
CC	drugs which require fast nutrient action and to stimulate glucose-induced	
CC	insulin release. They are also useful as research reagents for the	
CC	expansion, differentiation, growth factor and hormone secretion and/or	
CC	cell-cell interactions of tissues associated with gastrointestinal	
CC	system, brain and central nervous system. These molecules are useful for	
CC	treating dysfunction associated with contractile tissues or to suppress	
CC	or enhance contractility in vivo and to treat gastrointestinal and growth	
CC	related diseases. ZS33LP peptides, nucleic acids and/or antibodies are	
CC	useful for treating disorders associated with gastrointestinal	
CC	contractility, secretion of digestive enzymes, hormone and acids,	
CC	secretion of hormones in the pancreas and/or brain, gastrointestinal	
CC	motility, recruitment of digestive enzymes, inflammation and regulation	
CC	of nutrient absorption. Sequences of the invention are useful in gene	
CC	therapy. The present sequence is human zsig33 protein	
XX		
SQ	Sequence 117 AA;	

Query Match      31.9%;    Score 198;    DB 5;    Length 117;  
Best Local Similarity    88.6%;    Pred No. 2,4e-14;

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Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
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Db 1 MPSPTVCSLLILGLWLDLMASSFLSPHQRYQVPPHKA 44

RESULT 12
ABUS8046
ID ABUS8046 standard; protein; 117 AA.
XX
AC ABUS8046;
XX
DT 14-APR-2003 (first entry)
XX
DE Human PRO polypeptide #78.
XX
KW Human; PRO; cytosolic; tumour; cancer; breast; lung; stomach; liver;
KW horse; cow; dog; cat; sheep; pig; goat; rabbit; ADEPT;
KW antibody-dependent enzyme mediated prodng therapy.
XX
OS Homo sapiens.
XX
PN US2003027163-A1.
XX
PD 06-FEB-2003.
XX
PF 15-NOV-2001; 2001US-00997666.
XX
PR 16-JUN-1997; 97US-0049787P.
PR 17-OCT-1997; 97US-0062250P.
PR 05-NOV-1997; 97WO-US020069.
PR 12-NOV-1997; 97US-0065186P.
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PR 17-JUN-1998; 98US-0089599P.
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PR	16-SEP-1998;	98US-0100634P.
PR	16-SEP-1998;	98WO-US019330.
PR	17-SEP-1998;	98US-0100858P.
PR	17-SEP-1998;	98WO-US019437.
PR	07-OCT-1998;	98WO-US021141.
PR	01-DEC-1998;	98WO-US025108.
PR	22-DEC-1998;	98US-0113296P.
PR	05-JAN-1999;	99WO-US000106.
PR	08-MAR-1999;	99WO-US005028.
PR	12-MAR-1999;	99US-0123957P.
PR	02-JUN-1999;	99WO-US012252.
PR	23-JUN-1999;	99US-0141037P.
PR	07-JUL-1999;	99US-0143048P.
PR	20-JUL-1999;	99US-0144758P.
PR	26-JUL-1999;	99US-0145698P.
PR	28-JUL-1999;	99US-0146222P.
PR	17-AUG-1999;	99US-0149366P.
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PR	08-OCT-1999;	99US-0158663P.
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PR	01-DEC-1999;	99WO-US028301.
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PR	20-DEC-1999;	99WO-US030911.
PR	05-JAN-2000;	2000WO-US000219.
PR	06-JAN-2000;	2000WO-US000376.
PR	11-FEB-2000;	2000WO-US003565.
PR	18-FEB-2000;	2000WO-US004341.
PR	22-FEB-2000;	2000WO-US004914.
PR	24-FEB-2000;	2000WO-US004914.
PR	24-FEB-2000;	2000WO-US005004.
PR	02-MAR-2000;	2000WO-US005841.
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PR	24-AUG-2000;	2000WO-US023328.
PR	07-SEP-2000;	2000US-0230978P.

Query Match	31.9%	Score 198;	DB 6;	Length 117;
Best Local Similarity	88.6%;	Pred. No. 2.4e-14;		
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Db 1 MSPPGTVCSLILLLGMLWLDLAMAGSSFLSPHQVRVQVREPHKAP 44

RESULT	13
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AC	ABUS9124 standard; protein; 117 AA.
XX	
XX	ABUS9124;
DT	28-APR-2003 (first entry)
DE	Novel human secreted or transmembrane protein PRO1066.
XX	
XX	Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing
KW	cardiac insufficiency disorder; cancer; tumour; immune response;
KW	adrenal cortical capillary endothelial growth; c-fos induction;
KW	vascular endothelial growth factor inhibition; VEGF inhibition;
KW	endothelial cell growth inhibitor; T-lymphocytes stimulation;
KW	retinal neurons cell survival; rod photoreceptor cell survival;
KW	retinal neovascularization; retinitis pigmentosa; kidney disorder;
KW	mammalian kidney mesangial cell proliferation; Berger disease;
KW	dematioid; hepariniform; Crohn's disease; chondrocyte proliferation;
KW	chondrocyte redifferentiation; sports injury; arthritis.
OS	
XX	Homo sapiens.
XX	
PN	US2002132252-A1.
PD	19-SEP-2002.
XX	
PF	14-NOV-2001; 2001US-00990442.
XX	
PR	16-JUN-1997; 97US-0049787P.
PR	17-OCT-1997; 97US-0062250P.
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PR	03-JUN-1998; 98US-0087827P.
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 PR 16-SEP-1998; 98MO-US019330.  
 PR 17-SEP-1998; 98MO-US019437.  
 PR 07-OCT-1998; 98MO-US021141.  
 PR 01-DEC-1998; 98MO-US025108.  
 PR 05-JAN-1999; 99MO-US000106.  
 PR 08-MAR-1999; 99MO-US000252.  
 PR 02-JUN-1999; 99MO-US012222.  
 PR 15-SEP-1999; 99MO-US021090.  
 PR 15-SEP-1999; 99MO-US021547.  
 PR 30-NOV-1999; 99MO-US028313.  
 PR 01-DEC-1999; 99MO-US028301.  
 PR 01-DEC-1999; 99MO-US028634.  
 PR 16-DEC-1999; 99MO-US030095.  
 PR 20-DEC-1999; 99MO-US030911.  
 PR 06-JAN-2000; 2000MO-US000219.  
 PR 06-JAN-2000; 2000MO-US000376.  
 PR 11-FEB-2000; 2000MO-US003565.  
 PR 18-FEB-2000; 2000MO-US004341.  
 PR 22-FEB-2000; 2000MO-US004414.  
 PR 24-FEB-2000; 2000MO-US004914.  
 PR 02-MAR-2000; 2000MO-US005004.  
 PR 10-MAR-2000; 2000MO-US006319.  
 PR 15-MAR-2000; 2000MO-US006884.  
 PR 20-MAR-2000; 2000MO-US007377.  
 PR 30-MAR-2000; 2000MO-US008439.  
 PR 15-MAY-2000; 2000MO-US013358.  
 PR 17-MAY-2000; 2000MO-US013705.  
 PR 22-MAY-2000; 2000MO-US014042.  
 PR 30-MAY-2000; 2000MO-US014941.  
 PR 02-JUN-2000; 2000MO-US015264.  
 PR 28-JUL-2000; 2000MO-US020710.  
 PR 11-AUG-2000; 2000MO-US022031.  
 PR 23-AUG-2000; 2000MO-US023522.  
 PR 24-AUG-2000; 2000MO-US023328.  
 PR 08-NOV-2000; 2000MO-US030952.  
 PR 01-DEC-2000; 2000MO-US032678.  
 PR 28-FEB-2001; 2001MO-US006520.  
 PR 01-JUN-2001; 2001MO-US017800.  
 PR 20-JUN-2001; 2001MO-US019692.  
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 PR 09-JUL-2001; 2001MO-US021735.  
 PR 28-AUG-2001; 2001US-00941992.  
 XX  
 PA (GERTH ) GENENTECH INC.  
 XX  
 PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL,  
 PI Ferrara N, Fong S, Garber H, Gerltsen ME, Goddard A, Godowski PJ,  
 PI Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NP,  
 PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WT,  
 PI Zhang Z;  
 XX  
 XX WPI; 2003-247083/24.  
 DR N-PSDB; ABX80294.  
 XX  
 PT Novel isolated PRO polypeptides e.g., PRO826, PRO1068, PRO1184, PRO1346  
 PT and PRO1375, which stimulate proliferation of stimulated T-lymphocytes  
 PT are therapeutically useful for enhancing immune response and in cancer  
 PT treatments.  
 XX  
 XX Claim 12; Fig 186; 648pp; English.  
 XX  
 CC The invention describes an isolated human PRO polypeptide. The PRO  
 CC polypeptides are useful in detecting PRO polypeptides in a sample, in  
 CC linking a bioactive molecule to a cell expressing a PRO polypeptide, and  
 CC in modulating at least one biological activity of a cell expressing a PRO  
 CC polypeptide. PRO1312 stimulates hypertrophy of neonatal heart and is thus

CC useful for treating cardiac insufficiency disorders. PRO1154 and PRO1186  
 CC stimulate adrenal cortical capillary endothelial growth and PRO536,  
 CC PRO943, PRO828, PRO826, PRO1068 or PRO355, PRO826, PRO819, PRO1126,  
 CC PRO1360 and PRO1387 induce c-fos in endothelial cells, and are thus  
 CC useful for treating conditions or disorders where angiogenesis would be  
 CC beneficial, e.g. wound healing and antagonist of this polypeptide are  
 CC useful for treating cancerous tumours. PRO812 inhibits vascular  
 CC endothelial growth factor (VEGF) stimulated proliferation of endothelial  
 CC cells and is thus useful for inhibiting endothelial cell growth in  
 CC mammals which would be beneficial in inhibiting tumour growth. PRO826,  
 CC PRO1068, PRO1184, PRO1346 and PRO1375 stimulate proliferation of  
 CC stimulated T-lymphocytes and are therapeutically useful for enhancing  
 CC immune response. PRO828, PRO826, PRO1068 or PRO1132 enhance survival of  
 CC retinal neurons cells (PRO1132 is also enhances survival/proliferation of  
 CC rod photoreceptor cells) and therefore are useful for treating retinal  
 CC disorders of injuries, e.g. retinitis pigmentosa, AMD. PRO819, PRO813  
 CC and PRO1106 induce proliferation of mammalian kidney mesangial cells,  
 CC and therefore are useful for treating kidney disorders associated with  
 CC decreased mesangial cell function such as Berger disease or other  
 CC nephropathies associated with dermatitis, herpiformis or Crohn's  
 CC disease. PRO1310, PRO844, PRO1312, PRO1192 and PRO1387 induce the  
 CC proliferation and/or redifferentiation of chondrocytes in culture and are  
 CC thus useful for treating sports injuries, and arthritis. This is the  
 CC amino acid sequence of a novel human PRO protein  
 XX  
 SQ Sequence 117 AA;  
 Query Match 31.9%; Score 198; DB 6; Length 117;  
 Best Local Similarity 88.6%; Pred. No. 2,4e-14;  
 Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;  
 QY 1 MPSRGVCSILLGMLDLAMAGSFLSPHQVQVRPHKAP 44  
 DB 1 MPSRGVCSILLGMLDLAMAGSFLSPHQVQVRPHKAP 44  
 RESULT 14  
 ID ABU82636 standard; protein: 117 AA.  
 XX  
 AC ABU82636;  
 XX  
 DT 26-JUN-2003 (first entry)  
 XX  
 DE Human secreted/transmembrane protein PRO1066.  
 XX  
 KW Human; PRO; secreted protein; transmembrane protein;  
 KW cardiac insufficiency disorders; angiogenesis; wound healing;  
 KW cancerous tumour; immune response; retinal disorder; sight loss;  
 KW retinitis pigmentosa; age-related macular degeneration; AMD;  
 KW kidney disorder; Berger disease; nephropathy; dermatitis; herpiformis;  
 KW Crohn's disease; sports injury; arthritis.  
 XX  
 OS Homo sapiens.  
 XX  
 EN US2003032023-A1.  
 XX  
 PD 13-FEB-2003.  
 XX  
 PF 14-NOV-2001; 2001US-00990711.  
 XX  
 PR 16-JUN-1997; 97US-0049787P.  
 PR 17-OCT-1997; 97US-0062250P.  
 PR 05-NOV-1997; 97MO-US020009.  
 PR 12-NOV-1997; 97US-0065186P.  
 PR 13-NOV-1997; 97US-0065311P.  
 PR 24-NOV-1997; 97US-0066770P.  
 PR 25-FEB-1998; 98US-0075945P.  
 PR 20-MAR-1998; 98US-0078910P.  
 PR 28-APR-1998; 98US-0083322P.  
 PR 07-MAY-1998; 98US-0084600P.  
 PR 28-MAY-1998; 98US-0087106P.  
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PR 02-JUN-1998; 98US-0087609P.  
PR 02-JUN-1998; 98US-0087759P.  
PR 03-JUN-1998; 98US-0087827P.  
PR 04-JUN-1998; 98US-0088021P.  
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PR 04-JUN-1998; 98US-0088026P.  
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PR 04-JUN-1998; 98US-0088029P.  
PR 04-JUN-1998; 98US-0088033P.  
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PR 04-JUN-1998; 98US-0088326P.  
PR 05-JUN-1998; 98US-0088167P.  
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PR 05-JUN-1998; 98US-0088217P.  
PR 05-JUN-1998; 98US-0088555P.  
PR 09-JUN-1998; 98US-0088655P.  
PR 10-JUN-1998; 98US-0088734P.  
PR 10-JUN-1998; 98US-0088738P.  
PR 10-JUN-1998; 98US-0088742P.  
PR 10-JUN-1998; 98US-0088810P.  
PR 10-JUN-1998; 98US-0088824P.  
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PR 11-JUN-1998; 98US-0088858P.  
PR 11-JUN-1998; 98US-0088861P.  
PR 11-JUN-1998; 98US-0088876P.  
PR 12-JUN-1998; 98US-0089105P.  
PR 16-JUN-1998; 98US-0089440P.  
PR 16-JUN-1998; 98US-0089512P.  
PR 16-JUN-1998; 98US-0089514P.  
PR 17-JUN-1998; 98US-0089533P.  
PR 17-JUN-1998; 98US-0089538P.  
PR 17-JUN-1998; 98US-0089598P.  
PR 17-JUN-1998; 98US-0089599P.  
PR 17-JUN-1998; 98US-0089600P.  
PR 17-JUN-1998; 98US-0089653P.  
PR 18-JUN-1998; 98US-0089801P.  
PR 18-JUN-1998; 98US-0089907P.  
PR 18-JUN-1998; 98US-0089908P.  
PR 19-JUN-1998; 98US-0089947P.  
PR 19-JUN-1998; 98US-0089948P.  
PR 19-JUN-1998; 98US-0089952P.  
PR 22-JUN-1998; 98US-0090246P.  
PR 22-JUN-1998; 98US-0090252P.  
PR 22-JUN-1998; 98US-0090254P.  
PR 23-JUN-1998; 98US-0090349P.  
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PR 24-JUN-1998; 98US-0090429P.  
PR 24-JUN-1998; 98US-0090431P.  
PR 24-JUN-1998; 98US-0090435P.  
PR 24-JUN-1998; 98US-0090444P.  
PR 24-JUN-1998; 98US-0090445P.  
PR 24-JUN-1998; 98US-0090472P.  
PR 24-JUN-1998; 98US-0090535P.  
PR 24-JUN-1998; 98US-0090540P.  
PR 24-JUN-1998; 98US-0090542P.  
PR 25-JUN-1998; 98US-0090577P.  
PR 25-JUN-1998; 98US-0090676P.  
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PR 25-JUN-1998; 98US-0090695P.  
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PR 26-JUN-1998; 98US-0090862P.  
PR 26-JUN-1998; 98US-0090863P.  
PR 01-JUL-1998; 98US-0091360P.  
PR 01-JUL-1998; 98US-0091544P.  
PR 02-JUL-1998; 98US-0091478P.  
PR 02-JUL-1998; 98US-0091519P.  
PR 02-JUL-1998; 98US-0091626P.  
PR 02-JUL-1998; 98US-0091628P.  
PR 02-JUL-1998; 98US-0091633P.  
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PR 02-JUL-1998; 98US-0091673P.

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PR 07-JUL-1998; 98US-0091982P.  
PR 09-JUL-1998; 98US-0092182P.  
PR 10-JUL-1998; 98US-0092472P.  
PR 20-JUL-1998; 98US-0093339P.  
PR 30-JUL-1998; 98US-0094651P.  
PR 04-AUG-1998; 98US-0095282P.  
PR 04-AUG-1998; 98US-0095285P.  
PR 04-AUG-1998; 98US-0095301P.  
PR 04-AUG-1998; 98US-0095302P.  
PR 04-AUG-1998; 98US-0095318P.  
PR 04-AUG-1998; 98US-0095321P.  
PR 04-AUG-1998; 98US-0095325P.  
PR 10-AUG-1998; 98US-0095916P.  
PR 10-AUG-1998; 98US-0095929P.  
PR 10-AUG-1998; 98US-0096012P.  
PR 11-AUG-1998; 98US-0096143P.  
PR 11-AUG-1998; 98US-0096146P.  
PR 12-AUG-1998; 98US-0096329P.  
PR 17-AUG-1998; 98US-0096757P.  
PR 17-AUG-1998; 98US-0096766P.  
PR 17-AUG-1998; 98US-0096768P.  
PR 17-AUG-1998; 98US-0096773P.  
PR 17-AUG-1998; 98US-0096791P.  
PR 17-AUG-1998; 98US-0096867P.  
PR 17-AUG-1998; 98US-0096891P.  
PR 17-AUG-1998; 98US-0096894P.  
PR 17-AUG-1998; 98US-0096895P.  
PR 17-AUG-1998; 98US-0096897P.  
PR 18-AUG-1998; 98US-0096949P.  
PR 18-AUG-1998; 98US-0096950P.  
PR 18-AUG-1998; 98US-0096959P.  
PR 18-AUG-1998; 98US-0096960P.  
PR 18-AUG-1998; 98US-0097002P.  
PR 19-AUG-1998; 98US-0097141P.  
PR 20-AUG-1998; 98US-0097218P.  
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PR 26-AUG-1998; 98US-0097954P.  
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PR 26-AUG-1998; 98US-0097974P.  
PR 26-AUG-1998; 98US-0097978P.  
PR 26-AUG-1998; 98US-0097979P.  
PR 26-AUG-1998; 98US-0097986P.  
PR 26-AUG-1998; 98US-0098014P.  
PR 31-AUG-1998; 98US-0098825P.  
PR 16-SEP-1998; 98US-0100634P.  
PR 16-SEP-1998; 98WO-US019330.  
PR 17-SEP-1998; 98US-0100858P.  
PR 17-SEP-1998; 98WO-US019437.  
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PR 01-DEC-1998; 98WO-US025108.  
PR 22-DEC-1998; 98US-0113286P.  
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PR 15-SEP-1999; 99WO-US021547.  
PR 08-OCT-1999; 99US-0158663P.  
PR 30-NOV-1999; 99WO-US028313.  
PR 01-DEC-1999; 99WO-US028301.  
PR 01-DEC-1999; 99WO-US028634.  
PR 16-DEC-1999; 99WO-US030095.  
PR 20-DEC-1999; 99WO-US030911.  
PR 05-JAN-2000; 2000WO-US000219.

PR 06-JAN-2000; 2000WO-US000376.  
PR 11-FEB-2000; 2000WO-US003565.  
PR 18-FEB-2000; 2000WO-US004341.  
PR 22-FEB-2000; 2000WO-US004414.  
PR 24-FEB-2000; 2000WO-US004914.  
PR 02-MAR-2000; 2000WO-US005004.  
PR 10-MAR-2000; 2000WO-US005841.  
PR 15-MAR-2000; 2000WO-US006319.  
PR 20-MAR-2000; 2000WO-US006884.  
PR 30-MAR-2000; 2000WO-US007377.  
PR 15-MAY-2000; 2000WO-US008439.  
PR 17-MAY-2000; 2000WO-US013358.  
PR 22-MAY-2000; 2000WO-US014042.  
PR 30-MAY-2000; 2000WO-US014941.  
PR 02-JUN-2000; 2000WO-US015264.  
PR 23-JUN-2000; 2000US-0213637P.  
PR 28-JUL-2000; 2000WO-US020710.  
PR 11-AUG-2000; 2000WO-US022031.

Query Match 31.9%; Score 198, DB 6; Length 117;  
Best Local Similarity 88.6%; Pred. No. 2.4e-14;  
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

OY 1 MSPRGTCSLLILGMLWDLAMAGSSFLSPRHQVQVRPHKAP 44  
DB 1 MSPRGTCSLLILGMLWDLAMAGSSFLSPRHQVQVRPHKAP 44

## RESULT 15

ABO17836 standard; protein; 117 AA.

AC ABO17836;

DT 26-AUG-2003 (first entry)

DE Novel human secreted and transmembrane protein PRO1066.

XX Human; secreted and transmembrane protein; PRO; antiinflammatory;  
XX antiarteriosclerotic; cardiatic; anti-infertility; anti-HIV; cytosolic;  
XX antidiabetic; gene therapy; tumour necrosis factor (TNF)-alpha release;  
XX TNF-alpha release; cell proliferation; cell differentiation;  
XX gene expression modulator; proteoglycan release; cytokine release;  
XX tumour; inflammatory disease; organ failure; atherosclerosis;  
XX cardiac injury; infertility; birth defect; premature aging; AIDS;  
XX acquired immunodeficiency syndrome; cancer; diabetic complication;  
XX chromosome mapping; gene mapping; pharmaceutical; diagnostic; biosensor;  
XX bioreactor; tissue typing.

OS Homo sapiens.

PN US2003032156-A1.

PD 13-FEB-2003.

PF 06-MAY-2002; 2002US-00140474.

XX 31-MAR-1997; 97WO-US005230.  
PR 12-JUN-1998; 98WO-US012456.  
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PR 10-SEP-1998; 98WO-US018624.  
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PR 16-SEP-1998; 98WO-US019330.  
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PR 07-OCT-1998; 98WO-US021141.  
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PR 20-NOV-1998; 98WO-US024855.  
PR 01-DEC-1998; 98WO-US025108.

PR 05-JAN-1999; 99WO-US000106.  
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PR 08-SEP-1999; 99WO-US020594.  
PR 13-SEP-1999; 99WO-US020944.  
PR 15-SEP-1999; 99WO-US021090.  
PR 15-SEP-1999; 99WO-US021547.  
PR 05-OCT-1999; 99WO-US023089.  
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PR 30-NOV-1999; 99WO-US028409.  
PR 01-DEC-1999; 99WO-US028534.  
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PR 02-DEC-1999; 99WO-US028564.  
PR 02-DEC-1999; 99WO-US028565.  
PR 16-DEC-1999; 99WO-US030095.  
PR 20-DEC-1999; 99WO-US030911.  
PR 20-DEC-1999; 99WO-US030999.  
PR 22-DEC-1999; 99WO-US030720.  
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PR 30-DEC-1999; 99WO-US031274.  
PR 05-JAN-2000; 2000WO-US000219.  
PR 06-JAN-2000; 2000WO-US000277.  
PR 11-FEB-2000; 2000WO-US003376.  
PR 18-FEB-2000; 2000WO-US004341.  
PR 18-FEB-2000; 2000WO-US004414.  
PR 22-FEB-2000; 2000WO-US004914.  
PR 24-FEB-2000; 2000WO-US005004.  
PR 01-MAR-2000; 2000WO-US005601.  
PR 02-MAR-2000; 2000WO-US005746.  
PR 02-MAR-2000; 2000WO-US005841.  
PR 10-MAR-2000; 2000WO-US006319.  
PR 15-MAR-2000; 2000WO-US006884.  
PR 20-MAR-2000; 2000WO-US007377.  
PR 21-MAR-2000; 2000WO-US007532.  
PR 30-MAR-2000; 2000WO-US008439.  
PR 17-MAY-2000; 2000WO-US013705.  
PR 22-MAY-2000; 2000WO-US014042.  
PR 30-MAY-2000; 2000WO-US014941.  
PR 02-JUN-2000; 2000WO-US015264.  
PR 28-JUL-2000; 2000WO-US020710.  
PR 11-AUG-2000; 2000WO-US022031.  
PR 23-AUG-2000; 2000WO-US023522.  
PR 24-AUG-2000; 2000WO-US023528.  
PR 08-NOV-2000; 2000WO-US030952.  
PR 10-NOV-2000; 2000WO-US030873.  
PR 01-DEC-2000; 2000WO-US032678.  
PR 20-DEC-2000; 2000US-00747259.  
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PR 09-MAR-2001; 2001US-00802706.  
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PR 10-MAY-2001; 2001US-00854208.  
PR 18-MAY-2001; 2001US-00854280.  
PR 25-MAY-2001; 2001US-00866026.  
PR 25-MAY-2001; 2001US-00866034.  
PR 25-MAY-2001; 2001WO-US017092.  
PR 01-JUN-2001; 2001US-00872035.  
PR 01-JUN-2001; 2001WO-US017800.  
PR 05-JUN-2001; 2001US-00874503.  
PR 14-JUN-2001; 2001US-00882636.

PR 19-JUN-2001; 2001US-0086342.  
 PR 20-JUN-2001; 2001WO-US019692.  
 PR 21-JUN-2001; 2001US-00867879.  
 PR 22-JUN-2001; 2001WO-US020116.  
 PR 29-JUL-2001; 2001WO-US021066.  
 PR 09-JUL-2001; 2001US-00908827.  
 PR 18-JUL-2001; 2001US-00908827.  
 PR 06-AUG-2001; 2001US-00924419.  
 PR 09-AUG-2001; 2001US-00927796.  
 PR 16-AUG-2001; 2001US-00931836.  
 PR 19-DEC-2001; 2001US-00028072.  
 XX  
 PA (GETH ) GENENTECH INC.  
 XX  
 PI Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;  
 PI Gettrisen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;  
 PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;  
 XX  
 DR WPI; 2003-341980/32.  
 DR N-PSDB; ACD24073.  
 XX  
 PT New secreted and transmembrane PRO nucleic acids, for treating  
 PT inflammation, organ failure, atherosclerosis, cardiac injury,  
 PT infertility, birth defects, premature aging, acquired immunodeficiency  
 PT syndrome (AIDS), or cancer.  
 XX  
 PS Claim 12; Fig 442; 660pp; English.  
 CC The invention describes an isolated nucleic acid (I) comprising, or which  
 CC has 80 % sequence identity to, or the full-length coding sequence of, one  
 CC of 275 nucleotide sequences, and which encodes a corresponding  
 CC polypeptide selected from 275 amino acid sequences, where all sequences  
 CC are given in the specification. The polypeptide encoded by (I) is used to  
 CC detect PRO polypeptides, link a bioactive molecule to a cell expressing a  
 CC PRO polypeptide, modulate a biological activity of a cell, stimulate the  
 CC release of tumour necrosis factor (TNF)-alpha from human blood, modulate  
 CC the uptake of glucose or free fatty acid by cells, stimulate or inhibit  
 CC the proliferation or differentiation of cells or gene expression,  
 CC stimulate the release of proteoglycans, stimulate the release of cytokine  
 CC from peripheral blood mononuclear cells, inhibit the binding of A-peptide  
 CC to factor VIIa, or detect the presence of tumour in a mammal. The nucleic  
 CC acid and polypeptide encoded by it, are useful for treating inflammatory  
 CC diseases, organ failure, atherosclerosis, cardiac injury, infertility,  
 CC birth defects, premature aging, acquired immunodeficiency syndrome  
 CC (AIDS), cancer, or diabetic complications. The nucleic acid is useful as  
 CC hybridisation probes, in chromosome and gene mapping, and in generating  
 CC antisense RNA or DNA. The polypeptides are useful as pharmaceuticals,  
 CC diagnostics, biosensors or bioreactors. Both are useful in tissue typing.  
 CC This is the amino acid sequence of a novel human secreted and  
 CC transmembrane PRO polypeptide  
 XX  
 SQ Sequence 117 AA;

Query Match 31.9%; Score 198; DB 6; Length 117;  
 Best Local Similarity 88.6%; Pred. No. 2.4e-14;  
 Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSPSGTVCSTLLILGLWLDLWLAGSSFLSPRHQRVQVPRPKAP 44  
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 Db 1 MSPSGTVCSTLLILGLWLDLWLAGSSFLSPRHQRVQVPRPKAP 44

Search completed: July 26, 2005, 14:29:20  
 Job time : 177 secs

GenCore version 5.1.6  
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## OM protein - protein search, using sw model

Run on: July 26, 2005, 14:19:28 ; Search time 40 Seconds  
(without alignments)  
281.434 Million cell updates/sec

Title: US-10-659-782B-32

Perfect score: 620

Sequence: 1 MPSPGTVCSLLILGMLWLDL.....PPSSRRSRSHQSPSCPEL 117

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

1: PIR.79:\*  
2: PIR1:\*  
3: PIR2:\*  
4: PIR4:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	198	31.9	117	1 A59316	ghrelin precursor
2	158	25.5	117	1 B59316	ghrelin precursor
3	78	12.6	136	2 AG0449	regulator of nucle
4	73.5	11.9	2018	2 T34274	hypothetical prote
5	73	11.8	573	2 JC4335	anti-mullerian hor
6	73	11.8	725	1 B64211	virulence-associat
7	72.5	11.7	555	2 H83043	hypothetical prote
8	72	11.6	666	2 T22943	hypothetical prote
9	71.5	11.5	764	2 I48882	thyrotropin recept
10	70.5	11.4	309	2 S77905	lyase - Pseudomona
11	70.5	11.4	383	2 A56084	interleukin-1beta
12	69	11.1	302	2 H96792	unknown protein F1
13	69	11.1	1487	2 S62048	probable membrane
14	68	11.0	796	2 T32425	hypothetical prote
15	68	11.0	1474	2 B85188	retrotransposon 1i
16	68	11.0	2088	2 B71436	hypothetical prote
17	67.5	10.9	764	2 A35956	thyrotropin recept
18	67	10.8	187	2 T51876	hypothetical prote
19	67	10.8	363	2 F91265	sensor protein Bas
20	67	10.8	363	2 C86106	sensor protein for
21	67	10.8	363	2 JX0285	sensor protein bas
22	67	10.8	449	2 C39926	hypothetical 51.8K
23	67	10.8	519	2 G84707	probable MYB famil
24	66.5	10.7	263	2 C56084	interleukin-1beta
25	66.5	10.7	311	2 B56084	interleukin-1beta
26	66.5	10.7	749	2 A75560	conserved hypotet
27	66	10.6	428	2 JH0634	site-specific DNA-
28	66	10.6	1001	2 T28897	hypothetical prote
29	65.5	10.6	304	2 S25080	bifunctional cycla

30	65.5	10.6	307	2 T33503	hypothetical prote
31	65	10.5	1027	2 B64187	conserved hypotet
32	64.5	10.4	381	2 S16506	hypothetical prote
33	64.5	10.4	415	2 S32932	regulatory protein
34	64.5	10.4	708	2 A38436	mitosis initiation
35	64	10.3	188	2 T19507	hypothetical prote
36	64	10.3	354	2 G75548	ABC transporter. A
37	64	10.3	467	1 S45493	serine proteinase
38	64	10.3	502	2 T36589	probable transmemb
39	64	10.3	540	2 T27400	hypothetical prote
40	64	10.3	637	2 T03842	fission yeast Skb1
41	64	10.3	695	2 T13648	mitosis initiation
42	64	10.3	749	2 S77175	sensory transducti
43	64	10.3	6805	2 S20901	titin - rabbit (fr
44	63.5	10.2	221	2 A57286	ribosomal protein
45	63.5	10.2	746	2 T19409	hypothetical prote

## ALIGNMENTS

## RESULT 1

A59316

ghrelin precursor - human

N:Alternate names: preproghrelin

C:Species: Homo sapiens (man)

C>Date: 16-Jun-2000 #sequence\_revision 16-Jun-2000 #text\_change 09-Jul-2004

C:Accession: A59316

R:Kojima, M.; Hosoda, H.; Date, Y.; Nakazato, M.; Matsuo, H.; Kangawa, K.

Nature 402, 656-660, 1999

A:Title: Ghrelin is a growth-hormone-releasing acylated peptide from stomach.

A:Reference number: A59316; MUID:20067959; PMID:10604470

A:Accession: A59316

A:Status: not compared with conceptual translation

A:Molecule type: mRNA

A:Residues: 1-117 <KOJ>

A:Cross-references: UNIPROT:Q9UBU3; GB:AB029434; NID:96691571; PTDN:BAAB9371.1; PTD:9669

A:Experimental source: tissue stomach endocrine cells

A>Note: Submitted to Genbank, June 1999

C:Comment: Ghrelin secreted by the stomach stimulates the release of somatotropin (growth

C:Superfamily: motilin

C:Keywords: hormone; lipoprotein; stomach

F:1-23/Domain: signal sequence #status predicted <SIG>

F:24-51/Product: ghrelin #status predicted <MAT>

F:52-117/Domain: carboxyl-terminal propeptide #status predicted <CTP>

F:26/Binding site: octanoate (Ser) (covalent) #status experimental

Query Match 31.9%; Score 198; DB 1; Length 117;

Best Local Similarity 88.6%; Pred. No. 1.8e-13;

Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 MPSPGTVCSLLILGMLWLDLAMAGSSFLSPDHQVRVPPHKA 44

Db 1 MPSPGTVCSLLILGMLWLDLAMAGSSFLSPDHQVRVPPHKA 44

## RESULT 2

B59316

ghrelin precursor - rat

N:Alternate names: preproghrelin

C:Species: Rattus norvegicus (Norway rat)

C>Date: 16-Jun-2000 #sequence\_revision 16-Jun-2000 #text\_change 09-Jul-2004

C:Accession: B59316

R:Kojima, M.; Hosoda, H.; Date, Y.; Nakazato, M.; Matsuo, H.; Kangawa, K.

Nature 402, 656-660, 1999

A:Title: Ghrelin is a growth-hormone-releasing acylated peptide from stomach.

A:Reference number: A59316; MUID:20067959; PMID:10604470

A:Accession: B59316

A:Status: not compared with conceptual translation

A:Molecule type: mRNA; protein

A:Residues: 1-117 <KOJ>

A:Cross-references: UNIPROT:Q9QYH7; GB:AB029433; NID:96691569; PTDN:BAAB9370.1; PTD:9669.

A:Experimental source: strain SD; tissue stomach endocrine cells

A;Note: submitted to GenBank, June 1999  
C;Comment: Ghrelin secreted by the stomach stimulates the release of somatotropin (growth)  
C;Superfamily: molitin  
C;Keywords: hormone, lipoprotein, stomach  
F;1-23/Domain: signal sequence #status predicted <SIG>  
F;24-51/Product: ghrelin #status predicted <MAT>  
F;52-117/Domain: carboxyl-terminal propeptide #status predicted <CTP>  
F;26/Binding site: octanoate (Ser) (covalent) #status experimental

Query Match 25.5%; Score 158; DB 1; Length 117;  
Best Local Similarity 40.0%; Pred. No. 2.6e-09;  
Matches 42; Conservative 7; Mismatches 34; Indels 22; Gaps 2;

QY 1 MPSPGTCSTLLTGMLMDLMAAGSSFLSPHQVQVRPHKAPHVVPALPLSNQCDLE 60  
1 MVSATTCSTLLSLMLMDMAAGSSFLSPHQVQVRPHKAPHVVPALPLSNQCDLE 54  
Db 1 MVSATTCSTLLSLMLMDMAAGSSFLSPHQVQVRPHKAPHVVPALPLSNQCDLE 54

QY 61 QQRH-----LMAVFSQSTKSGSDLTVSGRTWG 89  
55 GMLHPEDRGQAEEAEELERFNAPFDVGITLGAQVQGRALG 99  
Db 55 GMLHPEDRGQAEEAEELERFNAPFDVGITLGAQVQGRALG 99

RESULT 3  
AG0449  
regulator of nucleoside diphosphate kinase rnk [imported] - Yersinia pestis (strain CO92  
C;Species: Yersinia pestis  
C;Date: 02-Nov-2001 #sequence\_revision 02-Nov-2001 #text\_change 09-Jul-2004  
C;Accession: AG0449  
R;Parikh, J.; Wren, B.W.; Thomson, N.R.; Tibball, R.W.; Holden, M.T.G.; Prentice, M.B.;  
deno-Tarraga, A.M.; Chillingworth, T.; Cronin, A.; Davies, R.M.; Davis, P.; Dougan, G.;  
11, M.; Rutherford, K.; Simmonds, M.; Skelton, J.; Stevens, K.; Whitehead, S.; Barrett,  
Nature 413, 523-527, 2001

A;Title: Genome sequence of Yersinia pestis, the causative agent of plague.  
A;Reference number: AB0001; MUID:21470413; PMID:11586350  
A;Accession: AG0449  
A;Status: preliminary  
A;Molecule type: DNA  
A;Residues: 1-136 <KUR>  
A;Cross-references: UNIPROT:Q8ZAU1; GB:AL590842; PIDN:CAC93163.1; PID:q15981613; GSPDB:C  
C;Genetics:  
A;Gene: rnk

Query Match 12.6%; Score 78; DB 2; Length 136;  
Best Local Similarity 26.2%; Pred. No. 0.65;  
Matches 28; Conservative 14; Mismatches 39; Indels 26; Gaps 3;

QY 21 AMAGS---SFLSPHQVQVRPHKAPHVVPALPLSNQCDL-EGQRHLMASVFSQSTKD 76  
24 AFAGSVVATALNEELDRALILPNEIPADVVVTMSRVFLDLNQGEEHIRTLYVPASIKD 83  
Db 24 AFAGSVVATALNEELDRALILPNEIPADVVVTMSRVFLDLNQGEEHIRTLYVPASIKD 83

QY 77 SGSULTV-----SGRTWGLRVNLNLPSPSS 101  
84 SNEQLSVNAPLGLALGLHVNDEISWKLPGGDETRITVLELLYQPS 130  
Db 84 SNEQLSVNAPLGLALGLHVNDEISWKLPGGDETRITVLELLYQPS 130

RESULT 4  
T34274  
hypothetical protein F46H5.4 - Caenorhabditis elegans  
C;Species: Caenorhabditis elegans  
C;Date: 29-Oct-1999 #sequence\_revision 29-Oct-1999 #text\_change 09-Jul-2004  
C;Accession: T34274  
R;Nhan, M.  
submitted to the EMBL Data Library, November 1995  
A;Description: The sequence of C. elegans coemid F46H5.  
A;Reference number: Z21498  
A;Accession: T34274  
A;Status: preliminary; translated from GB/EMBL/DBJ  
A;Molecule type: DNA  
A;Residues: 1-2018 <NHA>  
A;Cross-references: UNIPROT:Q20487; EMBL:U41543; PIRN:AAB37023.1; GSPDB:GN00028; CESP:F4  
A;Experimental source: strain Bristol N2; clone F46H5  
C;Genetics:  
A;Gene: CESP:F46H5.4

A;Map position: X  
A;Intons: 16/2; 52/3; 87/2; 116/2; 138/2; 203/1; 265/3; 317/2; 337/3; 378/1; 428/1; 482/  
7/3; 1491/3; 1560/2; 1632/2; 1753/3; 1830/2; 1862/2; 1927/3

Query Match 11.9%; Score 73.5; DB 2; Length 2018;  
Best Local Similarity 31.2%; Pred. No. 38;  
Matches 25; Conservative 7; Mismatches 31; Indels 17; Gaps 4;

QY 38 RPHKAPHVVPALPLSNQCDLEQQRHLMASVFSQSTKSGSDLTVS--GRTWGLRVNR 95  
Db 652 RTHFTDEILSLP-----CDLNDGHHLLFTVHHISCKGSDSSTSPIGYIY----- 699

QY 96 LFP--PSRPSRPSRSHQPS 113  
700 -LPLVNGKLRSGNFFLPVC 718  
Db 700 -LPLVNGKLRSGNFFLPVC 718

RESULT 5  
JC4335  
anti-muellerian hormone type II receptor precursor - human  
C;Species: Homo sapiens (man)  
C;Date: 06-Dec-1995 #sequence\_revision 08-Feb-1996 #text\_change 16-Aug-2004  
C;Accession: JC4335  
R;Visser, J.A.; Mcluskey, A.; van Beers, T.; Weghuis, D.O.; van Kessel, A.G.; Grootegeed,  
Biochem. Biophys. Res. Commun. 215, 1029-1036, 1995  
A;Title: Structure and chromosomal localization of the human anti-muellerian hormone type  
A;Reference number: JC4335; MUID:96028015; PMID:7488027  
A;Accession: JC4335  
A;Molecule type: mRNA  
A;Residues: 1-573 <KVS>  
A;Cross-references: UNIPROT:Q16671; GB:X91156; NID:g1107671; PIDN:CA62593.1; PID:e19804  
C;Comment: This is a receptor for anti-muellerian hormone (see PIR:WFHM). It plays a crit  
C;Genetics:  
A;Gene: GDB:AMHR2  
A;Cross-references: GDB:696210; OMIM:600956  
A;Map position: 12q13-12q13  
A;Intons: 16/3; 77/3; 141/3; 167/3; 207/2; 284/2; 322/3; 380/2; 429/3; 475/2  
C;Superfamily: protein kinase homology  
C;Keywords: ATP; hormone receptor; transmembrane protein  
F;1-16/Domain: signal sequence #status predicted <SIG>  
F;17-573/Product: anti-muellerian hormone type II receptor #status predicted <MAT>  
F;17-141/Domain: extracellular hormone binding #status predicted <ELB>  
F;142-167/Domain: transmembrane #status predicted <TM>  
F;201-512/Domain: protein kinase homology <KIN>

Query Match 11.8%; Score 73; DB 2; Length 573;  
Best Local Similarity 27.4%; Pred. No. 11;  
Matches 34; Conservative 15; Mismatches 35; Indels 40; Gaps 6;

QY 3 SPGTVC-----LTLTGMLMDLMAAGS---SFLSPHQVQVRPHKAP 44  
128 SPGTGSGQQAAPGESIMWALVLGLFLLLVLSIIALLQRRNRYRGPVPEPRP 187  
Db 128 SPGTGSGQQAAPGESIMWALVLGLFLLLVLSIIALLQRRNRYRGPVPEPRP 187

QY 45 H-----VVPALPLSNQCDLEQQRHLMASVFSQSTKSGSDLTVSGRTWGLRVNLRLP 97  
188 DSGRDMSEVLEQLP---ELC-----PSQVIREGGHVVVWAGLOGLKLVAKAF 232  
Db 188 DSGRDMSEVLEQLP---ELC-----PSQVIREGGHVVVWAGLOGLKLVAKAF 232

QY 98 PPS 101  
233 PPS 236  
Db 98 PPS 101  
233 PPS 236

RESULT 6  
E64211  
virulence-associated protein vacB homolog - Mycoplasma genitalium  
C;Species: Mycoplasma genitalium  
C;Date: 10-Sep-1999 #sequence\_revision 10-Sep-1999 #text\_change 09-Jul-2004  
C;Accession: E64211  
R;Fraser, C.M.; Gockayne, J.D.; White, O.; Adams, M.D.; Clayton, R.A.; Fleischmann, R.D.;  
M.; Fuhman, J.; Nguyen, D.; Uterback, T.R.; Saudek, D.M.; Phillips, C.A.; Merrick, J.  
' C.A.; Venter, J.C.  
Science 270, 397-403, 1995  
A;Title: The minimal gene complement of Mycoplasma genitalium.

A:Reference number: A64200; MUID:96026346; PMID:7569993  
 A:Accession: B64211  
 A:Status: preliminary; nucleic acid sequence not shown; translation not shown  
 A:Molecule type: DNA  
 A:Residues: 1-725 <TIGR>  
 A:Cross-references: UNIPROT:P47350; GB:U39690; GB:L43967; NID:G1045782; PID:G1045783; TI  
 A:Experimental source: strain G-37  
 C:Genetics:  
 A:Genetic code: SGC3  
 C:Superfamily: virulence-associated protein vacB homolog

Query Match 11.8%; Score 73; DB 1; Length 725;  
 Best Local Similarity 25.7%; Pred. No. 14;  
 Matches 26; Conservative 16; Mismatches 39; Indels 20; Gaps 3;

Oy 18 LDLMAGSFLSPHQRVQRPHPKAP-----HVPALP-LSNQLCDLEQQRHLMAS 68  
 Db LVVALADVAHYVNRSEIDIEAKHTSSIVLPGHYVPMLEPQLSNQLCSINPAQKRYV 357

Oy 69 VFSQSTKDSGSDLTYSGRTWGLRVNRLFPSSRRSRSH 109  
 Db 358 VCEISFDNQGRIKT-----NKLVPATITISKRFPSY 387

RESULT 7  
 H83043  
 hypothetical protein PA4822 [imported] - Pseudomonas aeruginosa (strain PAO1)  
 C:Species: Pseudomonas aeruginosa  
 C:Date: 15-Sep-2000 #sequence\_revision 15-Sep-2000 #text\_change 09-Jul-2004  
 C:Accession: H83043  
 R:Stover, C.K.; Pham, X.Q.; Erwin, A.L.; Mizoguchi, S.D.; Warren, P.; Hickey, M.J.; Br  
 adman, S.; Yuan, Y.; Brody, L.L.; Coulter, S.N.; Folger, K.R.; Kas, A.; Laidig, K.; Lim,  
 .; Lory, S.; Olson, M.V.  
 Nature 406, 959-964, 2000  
 A:Title: Complete genome sequence of Pseudomonas aeruginosa PAO1, an opportunistic patho  
 A:Reference number: A82950; MUID:20437337; PMID:10984043  
 A:Accession: H83043  
 A:Status: preliminary  
 A:Molecule type: DNA  
 A:Residues: 1-555 <STO>  
 A:Cross-references: UNIPROT:Q9HUY8; GB:A8004895; GB:A8004091; NID:G9951083; PIDN:AA0820  
 A:Experimental source: strain PAO1  
 C:Genetics:  
 A:Gene: PA4822

Query Match 11.7%; Score 72.5; DB 2; Length 555;  
 Best Local Similarity 31.3%; Pred. No. 12;  
 Matches 31; Conservative 9; Mismatches 34; Indels 25; Gaps 4;

Oy 9 SLLIGMTMLDLAMGSSFLSPHQRVQRPHPKAPHYVVPALPLSNQLCDLEQQRHLMAS 68  
 Db 420 SLLPLAMKMGSRSGSEF-----ELGRM-----LPLD---AVIEESLHLAIS 459

Oy 69 VFSQSTKDSGSDLTYSGRTWGLRVNRLFPSSRRSRSH 107  
 Db 460 APLREDDDAALRLVAR-----KKLQRLLEADSRERFR 493

RESULT 8  
 T22943  
 hypothetical protein F58G11.3 - Caenorhabditis elegans  
 C:Species: Caenorhabditis elegans  
 C:Date: 15-Oct-1999 #sequence\_revision 15-Oct-1999 #text\_change 09-Jul-2004  
 C:Accession: T22943  
 R:Percy, C.  
 submitted to the EMBL Data Library, October 1996  
 A:Reference number: Z19640  
 A:Accession: T22943  
 A:Status: preliminary; translated from GB/EMBL/DBJ  
 A:Molecule type: DNA  
 A:Residues: 1-666 <WIL>  
 A:Cross-references: UNIPROT:P90898; EMBL:Z81094; PIDN:CAB03154.1; GSPDB:GN00023; CESP:FS  
 A:Experimental source: clone F58G11

C:Genetics:  
 A:Gene: CESP:F58G11.3  
 A:Map position: 5  
 A:Introns: 42/2; 82/2; 153/3; 274/3; 380/1; 569/3; 613/3

Query Match 11.6%; Score 72; DB 2; Length 666;  
 Best Local Similarity 26.9%; Pred. No. 16;  
 Matches 32; Conservative 11; Mismatches 42; Indels 34; Gaps 5;

Oy 33 QRVQRPHPKAPHYVVPALPLSNQLCDLEQQR-HLMASVFSQSTKDSGSD----- 80  
 Db 537 QRVVNPQCVKQKVPVPTLLQALAEVRQREQVEAFNQPPSPSPRLMGSSSHAA 596

Oy 81 LTVSGRTWGLRVNRL-----LFPSS-----RRSR-----RSHQPSCPPL 117  
 Db 597 SNVSDGAGVQVKEKSPKPTVLLPMSKAGAKIRPRSVLCHSSASFPPL 655

RESULT 9  
 I48882  
 thyrotropin receptor precursor - mouse  
 N:Alternate names: thyroid-stimulating hormone receptor; TSH receptor  
 C:Species: Mus musculus (house mouse)  
 C:Date: 15-Mar-1996 #sequence\_revision 15-Mar-1996 #text\_change 09-Jul-2004  
 C:Accession: I48882  
 R:Stein, S.A.; Oates, E.L.; Hall, C.R.; Grunbles, R.M.; Fernandez, L.M.; Taylor, N.A.; P  
 Mol. Endocrinol. 8, 129-138, 1994  
 A:Title: Identification of a point mutation in the thyrotropin receptor of the hyc/hyc h  
 A:Reference number: A54271; MUID:94224232; PMID:8170469  
 A:Accession: I48882  
 A:Status: preliminary  
 A:Molecule type: mRNA  
 A:Residues: 1-764 <RRS>  
 A:Cross-references: UNIPROT:P47750; EMBL:U02602; NID:G575923; PIDN:AA860455.1; PID:G5759  
 A:Gene: TSHR  
 C:Superfamily: glycoprotein hormone receptor; leucine-rich alpha-2-glycoprotein repeat h  
 C:Keywords: G protein-coupled receptor; transmembrane protein  
 F:53-76/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR1>  
 F:77-101/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR2>  
 F:102-126/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR3>  
 F:127-151/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR4>  
 F:152-176/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR5>  
 F:179-200/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR6>  
 F:201-226/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR7>

Query Match 11.5%; Score 71.5; DB 2; Length 764;  
 Best Local Similarity 28.8%; Pred. No. 21;  
 Matches 32; Conservative 16; Mismatches 50; Indels 13; Gaps 4;

Oy 4 PGTVCSTLLIGMTMLDLAMGSSFLSPHQRVQRPHPKAPHYVVPALPLSNQLCDLE 60  
 Db 3 PGSL-LTLVLLALSLRSRGKCCASPCCECHQDDPVTCKELHRIPLSPSTQTLKLI 60

Oy 61 QQ-RHLMASVFSQSTKDSGSDLTYSGRTWGLRVNRLFPSSRRSRSH 109  
 Db 61 ETHLKTIPSLAFSSLPNISRIYLSIDA-----TLQRLRPSRYNLSKTH 105

RESULT 10  
 S77905  
 lyase - Pseudomonas pseudomallei  
 C:Species: Pseudomonas pseudomallei  
 C:Date: 21-Apr-1997 #sequence\_revision 18-Jul-1997 #text\_change 09-Jul-2004  
 C:Accession: S77905; S36445; S36446  
 R:Penalosa-Vazquez, A.; Mena, G.L.; Herrera-Bastrelia, L.; Bailey, A.M.  
 Appl. Environ. Microbiol. 61, 538-543, 1995  
 A:Title: Cloning and sequencing of the genes involved in glyophosphate utilization by Pse  
 A:Reference number: S77905; MUID:96031567; PMID:7574593  
 A:Accession: S77905  
 A:Molecule type: DNA  
 A:Residues: 1-309 <PBN>  
 A:Cross-references: UNIPROT:Q52502; EMBL:X74325; NID:G439726; PIDN:CA52373.1; PID:G4397.





## RESULT 14

T32425

hypothetical protein C10E2.3 - Caenorhabditis elegans

C:Species: Caenorhabditis elegans

C:Date: 29-Oct-1999 #sequence\_revision 29-Oct-1999 #text\_change 09-Jul-2004

C:Accession: T32425

R:Wohlmann, P.; Sansone, J.

submitted to the EMBL Data Library, September 1997

A:Description: The sequence of C. elegans coamid C10E2.

A:Reference number: 22165

A:Accession: T32425

A:Status: preliminary; translated from GB/EMBL/DBJ

A:Molecule type: DNA

A:Residues: 1796 &lt;MOH&gt;

A:Cross-references: UNIPROT:O17323; EMBL:AF026202; PIDD:ABE71243.1; GSPDB:GN00028; CESP:

A:Experimental source: strain Bristol N2; clone C10E2

C:Genetics:

A:Gene: CESP:C10E2.3

A:Map position: X

A:Introns: 85/2; 220/2; 269/1; 305/1; 519/3; 576/3; 724/3; 755/3

## Query Match

Best Local Similarity 11.0%; Score 68; DB 2; Length 796;

Best Local Similarity 28.6%; Pred. No. 51;

Matches 28; Conservative 15; Mismatches 35; Indels 20; Gaps 4;

QY 18 LDLMAGSSFLSPHQRYQV--RPHKAPHVVPALPLSNQCDLEQQRHLMAVPSQSTKD 76

Db 47 LSLANSLTNLSSNSGNISVPTPKRHH--PTAPTSNRKCDLPRSN--STTISQLTKD 101

QY 77 SGSDLTVSGRTWGLVNLRLFPSSRSRRSRSHQPSCS 114

Db 102 -----RLKMIANRSKGSNSQSNLMSNS 125

## RESULT 15

B85188

retrotransposon like protein [imported] - Arabidopsis thaliana

C:Species: Arabidopsis thaliana (mouse-ear cress)

C:Date: 16-Feb-2001 #sequence\_revision 16-Feb-2001 #text\_change 09-Jul-2004

C:Accession: B85188

R:anonymous, The European Union Arabidopsis Genome Sequencing Consortium, The Cold Spring

Nature 402, 769-777, 1999

A:Title: Sequence and analysis of chromosome 4 of the plant Arabidopsis thaliana.

A:Reference number: A85001; MUID:20083488; PMID:10617198

A:Accession: B85188

A:Status: preliminary

A:Molecule type: DNA

A:Residues: 1-1474 &lt;STO&gt;

A:Cross-references: UNIPROT:O23529; GB:NC\_001268; NID:G5302802; PIDD:CAB46043.1; GSPDB:C

C:Genetics:

A:Gene: d14465c

A:Map position: 4

C:Superfamily: retrovirus-related polyprotein

## Query Match

Best Local Similarity 11.0%; Score 68; DB 2; Length 1474;

Best Local Similarity 27.0%; Pred. No. 1e+02; Indels 20; Gaps 5;

Matches 30; Conservative 19; Mismatches 42; Indels 20; Gaps 5;

QY 16 LMLDLAMAGSSFL--SPHQRYQVPPHKAHV--PALPLSNQCDLEQQRHLMAVPSV 70

Db 716 VFLGYSLTQTAYLCPDVEHKRL-----YTSRHVVFDASPPFSN---LTSQNSLPVTTF 766

QY 71 SQSTKD-----SGSDLTVSGRTWGLVNLRLFPSSRSRRSRSHQPSCS 115

Db 767 EQSSSPLVTPILSSSVLPSCLSPECTVHQQQPPVTPNSPHSQPTTSP 817

Search completed: July 26, 2005, 14:30:05  
Job time : 42 secs

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GenCore version 5.1.6  
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## OM protein - protein search, using sw model

Run on: July 26, 2005, 14:10:22 ; Search time 179 Seconds  
(without alignments)  
334.711 Million cell updates/sec

Title: US-10-659-782B-32  
Perfect score: 620

Sequence: 1 MSPSGTVCSTLLGLMMLMDL.....PPSSRRSRSRSHQSPCEPEL 117

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters: 1612378

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : UniProt 03:\*  
1: uniprot\_sprot:\*  
2: uniprot\_trembl:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	198	31.9	91	2	Q86YP8
2	198	31.9	117	2	Q86YPM
3	194	31.3	117	2	Q86UDE7
4	180	29.0	117	1	Q86YPM
5	171.5	27.7	116	1	Q86YPM
6	165	26.6	117	2	Q86YPM
7	163	26.3	117	2	Q86YPM
8	162	26.1	86	2	Q86YPM
9	162	26.1	117	1	Q86YPM
10	158.5	25.6	78	2	Q86YPM
11	158	25.5	117	1	Q86YPM
12	157.5	25.4	116	2	Q86YPM
13	150.5	24.3	74	2	Q86YPM
14	150.5	24.3	118	1	Q86YPM
15	147	23.7	34	2	Q86YPM
16	146	23.5	54	2	Q86YPM
17	145.5	23.5	116	1	Q86YPM
18	145	23.4	52	2	Q86YPM
19	145	23.4	54	2	Q86YPM
20	145	23.4	54	2	Q86YPM
21	142	22.9	54	2	Q86YPM
22	135.5	21.9	65	2	Q86YPM
23	133	21.0	54	2	Q86YPM
24	130	21.0	54	2	Q86YPM
25	123.5	19.8	54	2	Q86YPM
26	122.5	19.8	54	2	Q86YPM
27	113.5	18.3	97	2	Q86YPM
28	101	16.3	35	2	Q86YPM
29	98.5	15.9	116	2	Q86YPM
30	95	15.3	114	2	Q86YPM
31	95	15.3	124	2	Q86YPM

32	93	15.0	116	2	Q6VMJ5	Q6VMJ5 dromedius no
33	93	15.0	116	2	Q6VMJ6	Q6VMJ6 anas platyr
34	81	13.1	100	2	Q52856	Q52856 bacillus su
35	78	12.6	136	2	Q655H9	Q655H9 yersinia su
36	78	12.6	136	2	Q82A01	Q82A01 yersinia pe
37	78	12.6	1218	2	Q9W201	Q9W201 drosophila
38	76	12.3	1222	1	Q8W201	Q8W201 drosophila
39	75.5	12.2	208	2	Q6V501	Q6V501 mus musculu
40	75	12.1	116	2	Q72V11	Q72V11 gallus gall
41	75	12.1	116	2	Q8AV73	Q8AV73 gallus gall
42	74	11.9	256	2	Q8S2U0	Q8S2U0 oryza sativ
43	74	11.9	478	2	Q647K2	Q647K2 homo sapien
44	74	11.9	573	1	Q8H2 HUMAN	Q8H2 HUMAN
45	74	11.9	1688	2	Q7QB56	Q7QB56 anopheles g

## ALIGNMENTS

RESULT 1	Q86YP8	PRELIMINARY;	PRT;	91 AA.
ID	Q86YP8			
AC	Q86YP8			
DT	01-JUN-2003 (TREMBLrel. 24, Created)			
DT	01-JUN-2003 (TREMBLrel. 24, Last sequence update)			
DT	01-OCT-2003 (TREMBLrel. 25, Last annotation update)			
DE	Exon 3-deleted preproghrelin variant.			
OS	Homo sapiens (Human).			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
CC	Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.			
OX	NCBI_TaxID=9606;			
RN	[1]			
RP	SEQUENCE FROM N.A.			
RA	Jeffery P.L., Herington A.C., Chopin L.K.;			
RL	Submitted (NCV-2002) to the EMBL/GenBank/DBJ databases.			
DR	EMBL: AY184207; AAC27351.1; "			
DR	GO: GO:0005576; C:extracellular; IEA.			
DR	GO: GO:0016608; F:growth hormone-releasing hormone activity; IEA.			
DR	GO: GO:0050791; P:regulation of physiological process; IEA.			
DR	InterPro: IPR011070; AlphaBeta subunit.			
DR	InterPro: IPR006738; Motilin ghrelin.			
DR	InterPro: IPR005441; Preproghrelin.			
DR	Pfam: PF04644; Motilin ghrelin; 1.			
DR	PRINTS: PR01624; GHRELIN.			
DR	SEQUENCE 91 AA; 9972 MW; E7B532D32A3F8609 CRC64;			
SO	SEQUENCE			
Query Match	31.9%; Score 198; DB 2; Length 91;			
Best Local Similarity	88.6%; Pred. No. 1.4e-12;			
Matches	39; Conservative 0; Mismatches 5; Indels 0;			
OY	1 MSPSGTVCSTLLGLMMLMDL	AGSSFLSPHQVQVPPHKA	44	
DB	1 MSPSGTVCSTLLGLMMLMDL	AGSSFLSPHQVQVQQRKSKKP	44	
RESULT 2	GHRL HUMAN	STANDARD;	PRT;	117 AA.
ID	GHRL HUMAN			
AC	Q9UBU3; Q8TAR9; Q9H3R3;			
DT	28-FEB-2003 (Rel. 41, Created)			
DT	28-FEB-2003 (Rel. 41, Last sequence update)			
DT	25-JAN-2005 (Rel. 46, Last annotation update)			
DE	Ghrelin precursor (Growth hormone secretagogue) (Growth hormone releasing peptide) (Motilin-related peptide) (M46 protein)			
DE	(UNQ524/PRO1066).			
GN	Name=GHRL; Synonyms=MTLRP;			
OS	Homo sapiens (Human).			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
CC	Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.			
OX	NCBI_TaxID=9606;			
RN	[1]			
RP	SEQUENCE FROM N.A. (ISOFORM 1), AND ACYLATION OF SER-26.			
RL	Medline=20067959; PubMed=10604470; DOI=10.1038/45230;			
RX				

RA Kojima M., Hosoda H., Date Y., Nakazato M., Matsuo H., Kangawa K.;  
RT "Ghrelin is a growth-hormone-releasing acylated peptide from  
RT stomach.";   
RL Nature 402:656-660(1999).  
RN (2)  
RP SEQUENCE FROM N.A. (ISOFORMS 1 AND 2).  
RA Kojima M.;  
RL Submitted (DEC-1999) to the EMBL/Genbank/DBJ databases.  
RN (3)  
RP SEQUENCE FROM N.A. (ISOFORM 1).  
RC TISSUE=Stomach;  
RA Tomasetto C., Karam S.M., Rio M.-C.;  
RT "Identification of a novel gastric protein m46.";  
RL Submitted (JAN-2000) to the EMBL/Genbank/DBJ databases.  
RN (4)  
RP SEQUENCE FROM N.A. (ISOFORM 1).  
RA Majumdar M.P., Ten I.S., Gertner J.M., Leibei R.L.;  
RT "Genomic organization of the human Ghrelin gene.";  
RL J. Endocr. Genet. 1:231-233(2000).  
RN (5)  
RP SEQUENCE FROM N.A. (ISOFORM 1).  
RX MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;  
RA Clark H.F., Gurney A.L., Adaya E., Baker K., Baldwin D., Brush J.,  
RA Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,  
RA Eaton D., Foster J., Grimaldi C., Gu Q., Haas P.E., Helgens S.,  
RA Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,  
RA Lewis L., Liao D., Mark M., Robbie E., Sanchez C., Schoenfeld J.,  
RA Seehagiri S., Simmons L., Singh J., Smith V., Stinson J., Vagts A.,  
RA Vanden R., Watanabe C., Wleand D., Woods K., Xie M.-H., Yansura D.,  
RA Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A., Wood W.I.,  
RA Godowski P., Gray A.;  
RT "The secreted protein discovery initiative (SPDI), a large-scale  
RT effort to identify novel human secreted and transmembrane proteins: a  
RT bioinformatics assessment.";  
RL Genome Res. 13:2265-2270(2003).  
RN (6)  
RP SEQUENCE FROM N.A. (ISOFORM 1).  
RC TISSUE=Blood;  
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.2426038999;  
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,  
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,  
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,  
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,  
RA Datchenko L., Matusina K., Farmer A.A., Rubin G.M., Hong L.,  
RA Stapleton M., Soares M.B., Bonaldi M.F., Casavant T.L., Schetz T.E.,  
RA Brownstein W.J., Ueda T.B., Toshiyuki S., Carrino P., Prange C.,  
RA Rana S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,  
RA Bonak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,  
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hultk S.W.,  
RA Vallalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,  
RA Fahey J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,  
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,  
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,  
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,  
RA Buterfield V.S.N., Krzywinski M.I., Skalska U., Smalhus D.E.,  
RA Scherch A., Schein J.E., Jones S.J.M., Marra M.A.;  
RT "Generation and initial analysis of more than 15,000 full-length human  
RT and mouse cDNA sequences.";  
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).  
RN (7)  
RP SEQUENCE OF 24-33.  
RC TISSUE=Stomach;  
RX MEDLINE=20389976; PubMed=10930375;  
RA Tomasetto C., Karam S.M., Ribieras S., Masson R., Lefebvre O.,  
RA Steub A., Alexander G., Chénard M.-P., Rio M.-C.;  
RT "Identification and characterization of a novel gastric peptide  
RT hormone: the motilin-related peptide.";  
RL Gastroenterology 119:395-405(2000).  
RN (8)  
RP SEQUENCE OF 24-38.  
RX PubMed=15340161; DOI=10.1110/ps.04682504;  
RA Zhang Z., Henzel W.U.;  
RT "Signal peptide prediction based on analysis of experimentally

RT verified cleavage sites.";  
RL Protein Sci. 13:2819-2824(2004).  
RN (9)  
RP REVIEW.  
RX MEDLINE=21203998; PubMed=11306336; DOI=10.1016/S1043-2760(00)00362-3;  
RA Kojima M., Hosoda H., Matsuo H., Kangawa K.;  
RT "Ghrelin: discovery of the natural endogenous ligand for the growth  
RT hormone secretagogue receptor.";  
RL Trends Endocrinol. Metab. 12:118-122(2001).  
CC -1- FUNCTION: Specific ligand for the growth hormone secretagogue  
CC receptor type 1 (GHSR) inducing the release of growth hormone from  
CC the pituitary. Has an appetite-stimulating effect, induces  
CC adiposity and stimulates gastric acid secretion. Involved in  
CC growth regulation.  
CC -1- SUBCELLULAR LOCATION: Secreted.  
CC -1- ALTERNATIVE PRODUCTS:  
CC Event=Alternative splicing; Named isoforms=2;  
CC Name=1; Synonym=Ghrelin;  
CC Isoid=Q9UBU3-1; Sequence=Displayed;  
CC Name=2; Synonym=del-gln14-ghrelin;  
CC Isoid=Q9UBU3-2; Sequence=VSP\_003245;  
CC -1- PM: O-n-octanoylation is essential for activity.  
CC -1- SIMILARITY: Belongs to the motilin family.  
CC -1- DATABASE: Belongs to the motilin family.  
CC WWW="http://www.infobiogen.fr/services/chronocancer/genes/GhrelinID327.html".  
CC -----  
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CC -----  
DR EMBL; AB029434; BA089371.1; -;  
DR EMBL; AB035700; BAB19045.1; -;  
DR EMBL; AJ252278; CAB65733.1; -;  
DR EMBL; AF296558; AAC10300.1; -;  
DR EMBL; AY359053; AAC089412.1; -;  
DR EMBL; BC025791; AA025791.1; -;  
DR FIR; AS9316; AS9316;  
DR H-InvDB; HIX0003050; -;  
DR MIM; 605353; -;  
DR GO; GO:0005615; C:extracellular space; TAS.  
DR GO; GO:0005625; C:soluble fraction; TAS.  
DR GO; GO:0005311; F:growth hormone receptor binding; TAS.  
DR GO; GO:0007267; P:cell-cell signaling; TAS.  
DR GO; GO:0007286; P:cell-cell signaling; TAS.  
DR InterPro; IPR006737; motilin assoc.  
DR InterPro; IPR006738; motilin ghrelin.  
DR InterPro; IPR005441; Preproghrelin.  
DR Pfam; PF04643; Motilin\_assoc; 1.  
DR Pfam; PF04644; Motilin\_ghrelin; 1.  
DR PRINTS; PR01624; GHRELIN.  
DR PRODOM; PD332162; Preproghrelin; 1.  
KW Alternative splicing; Cleavage on pair of basic residues;  
KW Direct protein sequencing; Hormone; Lipoprotein; Signal.  
FT SIGNAL 1 23  
FT PEPTIDE 24 51 Ghrelin.  
FT PROPEP 52 117 Removed in mature form.  
FT LIPID 26 O-octanoyl serine.  
FT VARSPPLIC 37 37 Missing (in isoform 2).  
FT /FTId=VSP\_003245.  
FT CONFLICT 72 72 L->M (in Ref. 6).  
SQ SEQUENCE 117 AA; 12911 MW; 39C0572BBBCA2755 CRC64;  
OY 1 MPSPGTCSTLLGLGMLDLMAGSSFLSPEDHQRVQVRPPHAKP 44  
Db 1 MPSPGTCSTLLGLGMLDLMAGSSFLSPEDHQRVQVRPPHAKP 44  
Query Match 31.9%; Score 198; DB 1; Length 117;  
Best Local Similarity 88.6%; Pred. No. 1.9e-12;  
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- ALTERNATIVE PRODUCTS:
CC Event=Alternative splicing; Named isoforms=2;
CC Name=1; Synonyms=Ghrelin;
CC IsoId=Q6BEG6-1; Sequence=displayed;
CC Name=2; Synonyms=del-Gln14-Ghrelin;
CC IsoId=Q6BEG6-2; Sequence=VSP_011626;
CC -1- PTM: O-n-octanoylation is essential for activity (By similarity).
CC -1- SIMILARITY: Belongs to the motilin family.
-----
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CC or send an email to license@isb-sib.ch).
-----
CC DR EMBL; AB089201; BAD34670.1; -.
CC DR EMBL; AB089202; BAD34671.1; -.
CC DR Prodom; PD332162; Preproghrelin; 1.
CC KW Alternative splicing; Cleavage on pair of basic residues; Hormone;
CC Lipoprotein; Signal.
CC FT SIGNAL 1 By similarity.
CC FT PRETIDE 24 51 Ghrelin (By similarity).
CC FT PROPEP 52 117 Removed in mature form (By similarity).
CC FT LIPID 26 26 O-octanoyl serine (By similarity).
CC FT VARSPIC 37 37 Missing (in isoform 2).
CC FT FTID=VSP_011626.
CC SQ SEQUENCE 117 AA; 12956 MW; 8235A5147FEFF530 CRC64;
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Qy 1 MPRSGTVCSLLLGMLDLAMAGSPTSGEHOHYQVPRPHKAP 44
Db 1 MPRSGTVCSLLTSLTSMADLAMAGSSPLSGEHOHYQVPRPHKAP 44
-----
RESULT 5
GHR1_CAPRI
ID GHR1_CAPRI STANDARD; PRT; 116 AA.
AC Q6BEG7;
DT 25-OCT-2004 (Rel. 45, Created)
DT 25-OCT-2004 (Rel. 45, Last sequence update)
DT 25-OCT-2004 (Rel. 45, Last annotation update)
DE Ghrelin precursor (Growth hormone secretagogue) (Growth hormone
DE releasing peptide) (Motilin-related peptide).
GN Name=GHR1;
OS Capra hircus (Goat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
OC Caprinae; Capra.
OX NCBI_TaxId=9925;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Stomach;
RA Lin X., Miyazato M., Kaiya H., Ida T., Kangawa K.;
RT "cDNA cloning of feline and canine ghrelin."
RL Submitted (JUL-2002) to the EMBL/GenBank/DBJ databases.
CC -1- FUNCTION: Specific ligand for the growth hormone secretagogue
CC receptor type 1 (GHSR) inducing the release of growth hormone from
CC the pituitary. Has an appetite-stimulating effect, induces
CC adiposity and stimulates gastric acid secretion. Involved in
CC growth regulation (By similarity).
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- PTM: O-n-octanoylation is essential for activity (By similarity).
CC -1- SIMILARITY: Belongs to the motilin family.
-----
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```



RL Trends Endocrinol. Metab. 12:118-122(2001).

CC -1- FUNCTION: Specific ligand for the growth hormone secretagogue

CC receptor type 1 (GHSR) inducing the release of growth hormone from

CC the pituitary. Has an appetite-stimulating effect. Induces

CC adiposity and stimulates gastric acid secretion. Involved in

CC growth regulation.

CC -1- SUBCELLULAR LOCATION: Secreted.

CC -1- ALTERNATIVE PRODUCTS:

CC Event=Alternative splicing; Named isoforms=2;

CC Name=1; Synonyms=Ghrelin;

CC IsoId=Q9BEX0-1; Sequence=Displayed;

CC Name=2; Synonyms=del-Gln14-ghrelin;

CC IsoId=Q9BEX0-2; Sequence=VSP\_003246;

CC -1- TISSUE SPECIFICITY: Mainly expressed in the gastrointestinal tract

CC with higher levels in the stomach, medium levels in the duodenum,

CC jejunum, ileum and colon. Low expression in the testis and brain.

CC Not detected in the salivary gland, pancreas, liver and lung.

CC -1- PTM: O-n-octanoylation is essential for activity (By similarity).

CC -1- SIMILARITY: Belongs to the motilin family.

CC -----

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CC between the Swiss Institute of Bioinformatics and the EMBL outstation -

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CC -----

DR EMBL; AJ243503; CAB46500.1; -

DR EMBL; AB035701; BAB19046.1; -

DR EMBL; AB060078; BAB69857.1; -

DR EMBL; AK008658; BAB25814.1; -

DR EMBL; AK008860; BAB25934.1; -

DR MGD; MGI:193008; Gnr1.

DR GO; GO:0005737; C:cytoplasm; IDA.

DR GO; GO:000576; C:extracellular; IDA.

DR InterPro; IPR006737; motilin assoc.

DR InterPro; IPR006738; motilin\_ghrelin.

DR InterPro; IPR005441; Preproghrelin.

DR Pfam; PF04643; Motilin\_assoc; 1.

DR Pfam; PF04644; Motilin\_ghrelin; 1.

DR PRINTS; PR01624; GHRELIN.

DR ProDom; PD332162; Preproghrelin; 1.

DR Alternative splicing: Cleavage on pair of basic residues;

DR Direct protein sequencing; Hormone; Lipoprotein; Signal.

KM

FT SIGNAL 1 23

FT PEPTIDE 24 51 Ghrelin.

FT PROPEP 52 117 Removed in mature form (By similarity).

FT LIPID 26 26 O-octanoyl serine (By similarity).

FT VARSPIC 37 37 Missing (in isoform 2).

FT /FTId=VSP\_003246.

FT

FT SEQUENCE 117 AA; 13207 MW; EACBA9D2E3CA7203 CRC64;

SO

Query Match 26.3%; Score 163; DB 1; Length 117;

Best Local Similarity 41.0%; Pred. No. 7.3e-09;

Matches 43; Conservative 7; Mismatches 33; Indels 22; Gaps 2;

QY 1 MPSPGTCVCSLLILGMLWLDLMAAGSSFLSPHQVQVPPHKAHPVVPALPLSNQCLDL 60

DB 1 MLSSGTCISLLLSMLWMDMAMAGSSFLSPHQVQVPPHKAHPVVPALPLSNQCLDL 54

QY 61 QQRH-----LMAVFSQSTKDSGSDLTIVSGRTWG 89

DB 55 GWLHPEDRQGAETEEBELERFNAPFDVGIRLSAQYQQHGRALG 99

RESULT 8

081174 PRELIMINARY; PRT; 86 AA.

AC 081174

DT 01-JUN-2003 (TREMBLrel. 24; Created)

DT 01-JUN-2003 (TREMBLrel. 24; Last sequence update)

DT 01-MAR-2004 (TREMBLrel. 26; Last annotation update)

DE Exon 4-deleted preproghrelin variant.

GN Name=Ghrl;

OS Mus musculus (Mouse).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

OX NCBI\_TaxID=10090;

RN [1]

RP SEQUENCE FROM N.A.

RC STRAIN=Swiss;

RA Jeffrey P.L., Herington A.C., Chopin L.K.,

RL Submitted (NCV-2002) to the EMBL/GenBank/DBJ databases.

DR EMBL; AY179430; AAC27350.1; -

DR MGD; MGI:193008; Ghr1.

DR GO; GO:0005737; C:cytoplasm; IDA.

DR GO; GO:0005615; C:extracellular space; TAS.

DR GO; GO:0005179; F:hormone activity; TAS.

DR InterPro; IPR011070; AlphaBeta\_subunit.

DR InterPro; IPR006738; motilin\_ghrelin.

DR InterPro; IPR005441; Preproghrelin.

DR Pfam; PF04644; Motilin\_ghrelin; 1.

DR PRINTS; PR01624; GHRELIN.

DR

SO SEQUENCE 86 AA; 9758 MW; B913858874770512 CRC64;

Query Match 26.1%; Score 162; DB 2; Length 86;

Best Local Similarity 70.5%; Pred. No. 6.5e-09;

Matches 31; Conservative 4; Mismatches 9; Indels 0; Gaps 0;

QY 1 MPSPGTCVCSLLILGMLWLDLMAAGSSFLSPHQVQVPPHKAHP 44

DB 1 MLSSGTCISLLLSMLWMDMAMAGSSFLSPHQVQVPPHKAHP 44

RESULT 9

GHRL CANFA STANDARD; PRT; 117 AA.

ID GHRL CANFA

AC Q9BEF8; Q9BEF7;

DT 28-FEB-2003 (Rel. 41, Created)

DT 28-FEB-2003 (Rel. 41, Last sequence update)

DT 05-JUN-2004 (Rel. 44, Last annotation update)

DE Ghrelin precursor (Growth hormone secretagogue) (Growth hormone

DE releasing peptide) (Motilin-related peptide).

GN Name=GHRL; Synonyms=MTRLRP;

OS Canis familiaris (Dog).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.

OX NCBI\_TaxID=9615;

RN [1]

RP SEQUENCE FROM N.A. (ISOFORMS 1 AND 2).

RC TISSUE=Gastric fundus;

RA Tomasetto C., Wendling C., Rio M.-C., Poltras P.;

RT "Identification of cDNA encoding MTRLRP/ghrelin precursor from dog

RT fundus.";

RL Submitted (JAN-2001) to the EMBL/GenBank/DBJ databases.

CC -1- FUNCTION: Specific ligand for the growth hormone secretagogue

CC receptor type 1 (GHSR) inducing the release of growth hormone from

CC the pituitary. Has an appetite-stimulating effect. Induces

CC adiposity and stimulates gastric acid secretion. Involved in

CC growth regulation (By similarity).

CC -1- SUBCELLULAR LOCATION: Secreted.

CC -1- ALTERNATIVE PRODUCTS:

CC Event=Alternative splicing; Named isoforms=2;

CC Name=1; Synonyms=Ghrelin.

CC IsoId=Q9BEF8-1; Sequence=Displayed;

CC Name=2; Synonyms=del-Gln14-ghrelin;

CC IsoId=Q9BEF8-2; Sequence=VSP\_003244;

CC -1- PTM: O-n-octanoylation is essential for activity (By similarity).

CC -1- SIMILARITY: Belongs to the motilin family.

CC -----

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CC entities requires a license agreement (See <http://www.fdb-sib.ch/announce/> or send an email to [license@fdb-sib.ch](mailto:license@fdb-sib.ch)).

CC EMBL; AJ298295; CAC29155.1; -  
 DR EMBL; AJ298296; CAC29156.1; -  
 DR InterPro; IPR006737; Motilin\_assoc.  
 DR InterPro; IPR006738; Motilin\_ghrelin.  
 DR InterPro; IPR005441; Preproghrelin.  
 DR Pfam; PF04664; Motilin\_assoc.1.  
 DR Pfam; PF04664; Motilin\_ghrelin.1.  
 DR PRINTS; PRO1624; GHRELIN.  
 DR ProDom; PD332162; Preproghrelin; 1.  
 KM Alternative splicing; Cleavage on pair of basic residues; Hormone;  
 FM Lipoprotein; Signal.  
 FT SIGNAL; 1 23 By similarity.  
 FT PEPTIDE; 24 51 Ghrelin (By similarity).  
 FT PROPEP; 52 117 Removed in mature form (By similarity).  
 FT LIPID; 26 26 O-octanoyl serine (By similarity).  
 FT VARSPIC; 37 37 Missing (in isoform 2).  
 FT /FTid=VSP\_003244.  
 PT SEQUENCE 117 AA; 13007 MW; 3857FED9D1847CF CRC64;

Query Match 26.1%; Score 162; DB 1; Length 117;  
 Best Local Similarity 70.5%; Pred. No. 9.2e-09;  
 Matches 31; Conservative 5; Mismatches 8; Indels 0; Gaps 0;

OY 1 MSPSGTCSLLTGLMMLDLMAGSSFLSPHQVQVPPHPKAP 44  
 DB 1 MSPSGTCSLLTGLMMLDLMAGSSFLSPHQVQVPPHPKAP 44

RESULT 10  
 Q7TSD1 PRELIMINARY; PRT; 78 AA.  
 AC Q7TSD1;  
 DT 01-OCT-2003 (TRENBLrel. 25, Created)  
 DT 01-OCT-2003 (TRENBLrel. 25, Last sequence update)  
 DT 01-MAR-2004 (TRENBLrel. 26, Last annotation update)  
 DE Ghrelin delta2.  
 GN Name=ghrelin;  
 OS Mus musculus (Mouse).  
 CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 CC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 OX NCBI\_TaxID=10090;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RA Hsatoml H., Nageo K., Hirata H., Kawano K., Hibi N.;  
 RL Submitted (JUN-2003) to the EMBL/GenBank/DBJ databases.  
 DR EMBL; AB11891; BAC77409.1; -  
 DR GO; GO:0005737; C:cytoplasm; IDA.  
 DR GO; GO:0005615; C:extracellular space; TAS.  
 DR GO; GO:0005179; F:hormone activity; TAS.  
 DR InterPro; IPR006737; motilin\_assoc.  
 DR InterPro; IPR005441; Preproghrelin.  
 DR Pfam; PF04643; Motilin\_assoc.1.  
 DR ProDom; PD332162; Preproghrelin; 1.  
 SQ SEQUENCE 78 AA; 8615 MW; AD87GB5JC9A22FFB CRC64;

Query Match 25.6%; Score 158.5; DB 2; Length 78;  
 Best Local Similarity 40.7%; Pred. No. 1.3e-08;  
 Matches 37; Conservative 11; Mismatches 18; Indels 25; Gaps 3;

OY 1 MSPSGTCSLLTGLMMLDLMAGSSFLSPHQVQVPPHPKAPHVDPALPLSNQCDLE 60  
 DB 1 MLSSGTCSLLTGLMMLDLMAGSSFLSPHQVQVPPHPKAPHVDPALPLSNQCDLE 60

OY 61 QQRH-----LMAVSFSQSTKDSGSD 80  
 DB 52 YQHGRLGKFLQDILMEEV-----KEAPAD 77

RESULT 11  
 GHRL\_RAT

ID GHRL\_RAT STANDARD; PRT; 117 AA.  
 AC Q9QYH7; Q9ET69;  
 DT 28-FEB-2003 (Rel. 41, Created)  
 DT 28-FEB-2003 (Rel. 41, Last sequence update)  
 DT 25-OCT-2004 (Rel. 45, Last annotation update)  
 DE Ghrelin precursor (Growth hormone secretagogue) (Growth hormone releasing peptide) (Motilin-related peptide).  
 GN Name=Ghrl;  
 OS Rattus norvegicus (Rat).  
 CC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
 CC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.  
 OX NCBI\_TaxID=10116;  
 RN [1]  
 RP SEQUENCE FROM N.A. (ISOFORM 1), SEQUENCE OF 24-51, MASS SPECTROMETRY,  
 RP AND ACYLATION OF SER-26.  
 RC STRAIN=Sprague-Dawley; TISSUE=Stomach;  
 RX MEDLINE=20067959; PubMed=10604470; DOI=10.1038/45230;  
 RA Kojima M., Hosoda H., Date Y., Nakazato M., Matsuo H., Kangawa K.;  
 RT "Ghrelin is a growth-hormone-releasing acylated peptide from stomach.";  
 RT Nature 402:656-660(1999).  
 RL Nature 402:656-660(1999).  
 RN [2]  
 RP SEQUENCE FROM N.A. (ISOFORMS 1 AND 2), SEQUENCE OF 24-51, MASS  
 RP SPECTROMETRY, AND ACYLATION OF SER-26.  
 RC STRAIN=Sprague-Dawley; TISSUE=Stomach;  
 RX MEDLINE=20357315; PubMed=10801861; DOI=10.1074/jbc.M002784200;  
 RA Hosoda H., Kojima M., Matsuo H., Kangawa K.;  
 RT "Purification and characterization of rat des-Gln14-ghrelin, a second  
 RT endogenous ligand for the growth hormone secretagogue receptor.";  
 RT J. Biol. Chem. 275:21995-22000(2000).  
 RL J. Biol. Chem. 275:21995-22000(2000).  
 RN [3]  
 RP CHARACTERIZATION.  
 RX MEDLINE=21092536; PubMed=1162448; DOI=10.1006/bbrc.2000.4039;  
 RA Hosoda H., Kojima M., Matsuo H., Kangawa K.;  
 RT "Ghrelin and des-acyl ghrelin: two major forms of rat ghrelin peptide  
 RT in gastrointestinal tissue.";  
 RT Biochem. Biophys. Res. Commun. 279:909-913(2000).  
 RL Biochem. Biophys. Res. Commun. 279:909-913(2000).  
 RN [4]  
 RP STRUCTURE-ACTIVITY RELATIONSHIP.  
 RX MEDLINE=21433488; PubMed=11549267; DOI=10.1006/bbrc.2001.5553;  
 RA Matsunoto M., Hosoda H., Kitajima Y., Morozumi N., Minamitate Y.,  
 RA Tanaka S., Matsuo H., Kojima M., Hayashi Y., Kangawa K.;  
 RT "Structure-activity relationship of ghrelin: pharmacological study of  
 RT ghrelin peptides.";  
 RT Biochem. Biophys. Res. Commun. 287:142-146(2001).  
 RL Biochem. Biophys. Res. Commun. 287:142-146(2001).  
 RN [5]  
 RP REVIEW.  
 RX MEDLINE=21203998; PubMed=11306336; DOI=10.1016/S1043-2760(00)00362-3;  
 RA Kojima M., Hosoda H., Matsuo H., Kangawa K.;  
 RT "Ghrelin: discovery of the natural endogenous ligand for the growth  
 RT hormone secretagogue receptor.";  
 RT Trends Endocrinol. Metab. 12:118-122(2001).  
 RL Trends Endocrinol. Metab. 12:118-122(2001).  
 CC -1- FUNCTION: Specific ligand for the growth hormone secretagogue  
 CC receptor type 1 (GHSR) inducing the release of growth hormone from  
 CC the pituitary. Has an appetite-stimulating effect, induces  
 CC adiposity and stimulates gastric acid secretion. Involved in  
 CC growth regulation.  
 CC -1- SUBCELLULAR LOCATION: Secreted.  
 CC -1- ALTERNATIVE PRODUCTS:  
 CC Event=Alternative splicing; Named isoforms=2;  
 CC Name=1; Synonyms=Ghreltin;  
 CC IsoId=Q9QYH7-1; Sequence=Displayed;  
 CC Name=2; Synonyms=del-Gln14-ghrelin;  
 CC IsoId=Q9QYH7-2; Sequence=VSP\_003248;  
 CC -1- TISSUE SPECIFICITY: Broadly expressed with higher expression in  
 CC the stomach. Very low levels are detected in the hypothalamus,  
 CC heart, lung, pancreas, intestine and adipose tissue.  
 CC -1- PTM: O-n-octanoylation is essential for activity. The replacement  
 CC of Ser-26 by aromatic tryptophan preserves ghrelin activity.  
 CC -1- MASS SPECTROMETRY: MW=3314.9; MW ERR=0.7; METHOD=Electrospray;  
 CC RANGE=24-51 (Q9QYH7-1); NOTE=Ref.1.  
 CC -1- MASS SPECTROMETRY: MW=3187.1; MW ERR=0.6; METHOD=Electrospray;  
 CC RANGE=24-50 (Q9QYH7-2); NOTE=Ref.2.



CC -1- SIMILARITY: Belongs to the motilin family.  
 CC -----  
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 CC -----  
 CC EMBL; AB029433; BA89370.1; -  
 CC EMBL; AB035699; BAB11956.1; -  
 CC PIR; B59316; B59316.  
 CC InterPro; IPR006737; motilin\_assoc.  
 CC InterPro; IPR006738; motilin\_ghrelin.  
 CC InterPro; IPR005441; Preproghrelin.  
 CC Pfam; PF04643; Motilin\_assoc; 1.  
 CC Pfam; PF04644; Motilin\_ghrelin; 1.  
 CC PRINTS; PRO1624; GHRELIN.  
 CC ProDom; PD332162; Preproghrelin; 1.  
 CC KW Alternative splicing; Cleavage on pair of basic residues;  
 KM Direct protein sequencing; Hormone; Lipoprotein; Signal.  
 FT SIGNAL 1 23  
 FT PREPITD 24 51 Ghrelin.  
 FT PROPEP 52 117 Removed in mature form.  
 FT LIPID 26 26 Octanoyl serine.  
 FT VARSPLIC 37 37 Missing (in isoform 2).  
 FT /FTID=VSP\_003248.  
 FT SEQUENCE 117 AA; 13176 MW; 8857546F851A7691 CRC64;  
 SQ  
 Query Match 25.5%; Score 158; DB 1; Length 117;  
 Best Local Similarity 40.0%; Pred. No. 2.4e-08;  
 Matches 42; Conservative 7; Mismatches 34; Indels 22; Gaps 2;  
 QY 1 MPSPGTCSLLILGMLWLDLMAAGSSFLSPHQVQVRPPKAPHVVPALPLSNQLCDL 60  
 Db 1 MVSATITCSLLILSLMLMDLMAAGSSFLSPHQVQVRPPKAPHVVPALPLSNQLCDL 54  
 QY 61 QGRH-----LMAVSFSGSTKDSGSDLTVSGRTWG 89  
 Db 55 GMLHPEDRGQAEABEELIRFNAFPDVGITLGAQVQGRALG 99  
 RESULT 12  
 Q663L0 PRELIMINARY; PRT; 116 AA.  
 AC Q663L0;  
 DT 01-JUN-2003 (TREMBlrel. 24, Created)  
 DT 01-JUN-2003 (TREMBlrel. 24, Last sequence update)  
 DT 01-OCT-2003 (TREMBlrel. 25, Last annotation update)  
 DE Preproghrelin precursor.  
 OS Ovis aries (Sheep).  
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
 CC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;  
 CC Caprinae; Ovis.  
 NCBI\_TaxID=9940;  
 RX NCB1\_TaxID=9940;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC TISSUE=Stomach;  
 RL Submitted (ARR-2001) to the EMBL/GenBank/DBJ databases.  
 DR EMBL; AB060699; BAC75928.1; -  
 DR GO; GO:0005576; C:extracellular; IEA.  
 DR GO; GO:0016608; F:growth hormone-releasing hormone activity; IEA.  
 DR GO; GO:0050791; P:regulation of physiological process; IEA.  
 DR InterPro; IPR011070; Alpha\_beta\_subunit.  
 DR InterPro; IPR006737; motilin\_assoc.  
 DR InterPro; IPR006738; motilin\_ghrelin.  
 DR InterPro; IPR005441; Preproghrelin.  
 DR Pfam; PF04643; Motilin\_assoc; 1.  
 DR Pfam; PF04644; Motilin\_ghrelin; 1.  
 DR PRINTS; PRO1624; GHRELIN.  
 DR ProDom; PD332162; Preproghrelin; 1.

KW Signal.  
 FT SIGNAL 1 23 Potential.  
 FT CHAIN 24 50 ghrelin.  
 SQ SEQUENCE 116 AA; 12977 MW; B78ECA3DBF05686 CRC64;  
 Query Match 25.4%; Score 157.5; DB 2; Length 116;  
 Best Local Similarity 40.8%; Pred. No. 2.6e-08;  
 Matches 40; Conservative 14; Mismatches 35; Indels 9; Gaps 2;  
 QY 1 MPSPGTCSLLILGMLWLDLMAAGSSFLSPHQVQVRPPKAPHVVPALPLSNQLCDL 59  
 Db 1 MPAPRTYSLILSLMLMDLMAAGSSFLSPHQVQVRPPKAPHVVPALPLSNQLCDL 60  
 QY 60 EQGRH-----LMAVSFSGSTKDSGSDLTVSGRTWG 89  
 Db 61 GSQEGABDELEIRFNAFPNIGITLGAQVQGRALG 98  
 RESULT 13  
 Q67BB5 PRELIMINARY; PRT; 74 AA.  
 AC Q67BB5;  
 DT 25-OCT-2004 (TREMBlrel. 28, Created)  
 DT 25-OCT-2004 (TREMBlrel. 28, Last sequence update)  
 DT 25-OCT-2004 (TREMBlrel. 28, Last annotation update)  
 DE Ghrelin (Fragment).  
 OS Sus scrofa (Pig).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 CC Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.  
 NCBI\_TaxID=9823;  
 RX NCB1\_TaxID=9823;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC TISSUE=Stomach;  
 RL Submitted (AUG-2003) to the EMBL/GenBank/DBJ databases.  
 DR EMBL; AY373019; AAR24571.1; -  
 DR InterPro; IPR006738; motilin\_ghrelin.  
 DR InterPro; IPR005441; Preproghrelin.  
 DR Pfam; PF04644; Motilin\_ghrelin; 1.  
 DR PRINTS; PRO1624; GHRELIN.  
 DR NON\_TER 74  
 FT SEQUENCE 74 AA; 7980 MW; 875424C2D41FC166 CRC64;  
 SQ  
 Query Match 24.3%; Score 150.5; DB 2; Length 74;  
 Best Local Similarity 71.1%; Pred. No. 8.3e-08;  
 Matches 32; Conservative 4; Mismatches 8; Indels 1; Gaps 1;  
 QY 1 MPSPGTCSLLILGMLWLDLMAAGSSFLSPHQVQVRPPKAP 44  
 Db 1 MVSATITCSLLILSLMLMDLMAAGSSFLSPHQVQVRPPKAP 45  
 RESULT 14  
 GHRL\_PIG STANDARD; PRT; 118 AA.  
 ID GHRL\_PIG  
 AC Q6GKTS; Q6GKTS; Q6GKTS;  
 DT 28-FEB-2003 (Rel. 41, Created)  
 DT 28-FEB-2003 (Rel. 41, Last sequence update)  
 DT 25-OCT-2004 (Rel. 45, Last annotation update)  
 DE Ghrelin precursor (Growth hormone secretagogue) (Growth hormone releasing peptide) (Motilin-related peptide).  
 GN Name=GHRL.  
 OS Sus scrofa (Pig).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 CC Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.  
 NCBI\_TaxID=9823;  
 RX NCB1\_TaxID=9823;  
 RN [1]  
 RP SEQUENCE FROM N.A. (ISOFORMS 1 AND 2).  
 RA Kojima M.;  
 RL Submitted (DEC-1999) to the EMBL/GenBank/DBJ databases.  
 RN [2]  
 RP SEQUENCE FROM N.A. (ISOFORMS 1 AND 2).  
 RC TISSUE=Stomach;

```

RA Rouselle J., Lacroix D., Dubreuil P.;
RL Submitted (MAR-2001) to the EMBL/GenBank/DBJ databases.
CC -1- FUNCTION: Specific ligand for the growth hormone secretagogue
CC receptor type 1 (GHSR) inducing the release of growth hormone from
CC the pituitary. Has an appetite-stimulating effect. Induces
CC adiposity and stimulates gastric acid secretion. Involved in
CC growth regulation (By similarity).
CC -1- SUBCELLULAR LOCATION: Secreted (By similarity).
CC -1- ALTERNATIVE PRODUCTS:
CC Event=Alternative splicing; Named isoforms=2;
CC Name=1; Synonyms=Ghrelin;
CC IsoId=Q9GKX5-1; Sequence=Displayed;
CC Name=2; Synonyms=del-Gln14-ghrelin;
CC IsoId=Q9GKX5-2; Sequence=VSP_003247;
CC -1- PFM: O-n-octanoylation is essential for activity (By similarity).
CC -1- SIMILARITY: Belongs to the motilin family.
CC -----
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CC or send an email to license@isb-sib.ch).
CC -----
DR EMBL; AB035703; BAB19048.1; -
DR EMBL; AB035704; BAB19049.1; -
DR EMBL; AF308930; AAK19243.1; -
DR EMBL; AY028942; AAK30002.1; -
DR InterPro; IPR006737; motilin_assoc.
DR InterPro; IPR006738; motilin_ghrelin.
DR InterPro; IPR005441; Preproghrelin.
DR Pfam; PF04643; Motilin_assoc; 1.
DR Pfam; PF04644; Motilin_ghrelin; 1.
DR PRINTS; PR01624; GHRELIN.
DR ProDom; PD332162; Preproghrelin; 1.
KW Alternative splicing; Cleavage on pair of basic residues; Hormone;
KW Lipoprotein; Signal.
FT SIGNAL 1 24 By similarity.
FT PEPTIDE 25 52 Ghrelin.
FT PROPEP 53 118 Removed in mature form (By similarity).
FT LIPID 27 27 O-octanoyl serine (By similarity).
FT VARSPIC 38 38 Missing (in isoform 2).
FT /FTid=VSP_003247.
FT CONFLICT 17 17 L -> P (in Ref. 2; AAK30002).
FT CONFLICT 72 72 K -> E (in Ref. 2; AAK30002).
SQ SEQUENCE 118 AA; 12785 MW; 856D3B1D6DAB1A76 CRC64;

Query Match 24.3%; Score 150.5; DB 1; Length 118;
Best Local Similarity 71.1%; Pred. No. 1.4e-07;
Matches 32; Conservative 4; Mismatches 8; Indels 1; Gaps 1;

Qy 1 MPSPGVCSLLILGMLNL-DLMAAGSFLSPHQRVQVPPHKA 44
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
Db 1 MPSTGTICSLILSVLMDLMAAGSFLSPHQVKQKREKPK 45

RESULT 15
Q6SLG1 PRELIMINARY; PRT; 54 AA.
AC Q6SLG1;
DT 05-JUL-2004 (TREMBLrel. 27, Created)
DT 05-JUL-2004 (TREMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TREMBLrel. 27, Last annotation update)
DE Ghrelin (Fragment).
OS Capra hircus (Goat).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
OC Caprinae; Capra.
OC NCBL_TaxID=9925;
OX [1]
RN SEQUENCE FROM N.A.
RP
RA Dickin J.C., Thue T.D., Buchanan F.C.;

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RL Submitted (NOV-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY455985; AAS67351.1; -.
DR GO; GO:0005576; C:extracellular; IEA.
DR GO; GO:0016008; F:growth hormone-releasing hormone activity; IEA.
DR GO; GO:0050791; F:regulation of physiological process; IEA.
DR InterPro; IPR006738; motilin_ghrelin.
DR Pfam; PF04644; Motilin_ghrelin; 1.
DR PRINTS; PR01624; GHRELIN.
FT NON_TER 1 54
SQ SEQUENCE 54 AA; 6095 MW; C77B81F0EB0B5E98 CRC64;

Query Match 23.7%; Score 147; DB 2; Length 54;
Best Local Similarity 75.0%; Pred. No. 1.3e-07;
Matches 27; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

Qy 7 VCSLLILGMLMDLMAAGSFLSPHQRVQVPPHKA 42
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Db 1 ICSLLILGMLMDLMAAGSFLSPHQVKQKREKPK 36

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